Farm Equipment

Fall and Winter 1922

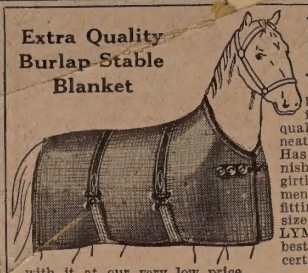
The Charles William Stor

New York City

Lyman's FIXFIT Blankets

THIS LABEL appears on every GENUINE Lyman's FIXFIT Blanket. The FIXFIT arrangement at the breast adjusts the neck to fit small, medium or large size horses. It also regulates length, doubles broast, protects chest, prevents sagging and shifting. We sell the GENUINE Lyman FIXFIT Blankets at LOWER prices.

Extra Quality Burlap Stable Blanket

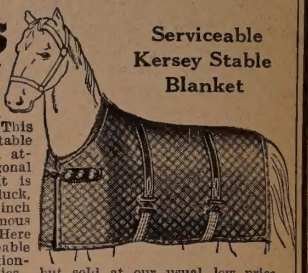


Here is a splendidly made burlap blanket that wears like iron. Made of 10-ounce extra quality burlap, kersey lined and neatly trimmed with red duck. Has Cape neck and is furnished with stout 2-inch jute girths. The FIXFIT attachment permits a close, snug-fitting blanket with any size neck. This genuine LYMAN blanket will give the best of service, and we are certain you will be pleased with it at our very low price.

31 K 1339 Lgth., 76 ins. Shpg. wt., 7¼ lbs. Price **$2.25**

31 K 1340 Same as above but extra large. Length, 80 ins. Shpg. wt., 7½ lbs. Price..... **$2.48**

Serviceable Kersey Stable Blanket



When you buy a genuine LYMAN stable blanket you are always sure of two things—GOOD QUALITY and a GOOD FIT at the neck. This is LYMAN'S Kersey Stable Blanket made up in an attractive light brown, diagonal check, kersey fabric. It is trimmed with brown duck, equipped with strong 2-inch jute girths and the famous FIXFIT attachment. Here is a strong, serviceable blanket that has exceptionally good wearing qualities, but sold at our usual low price. Length, 76 inches. Shipping weight, 4½ pounds.

31 K 1337 Kersey Stable Blanket. Price..... **$1.75**

Brown Duck Storm Covers

High grade, full weight material that will not crack. Trimmed with hame leathers, line pockets and trace straps. Length, 5 ft., 4 ins. 10-oz. Brown Oiled Duck. Full length. Shpg. wt., 8 lbs.

31 K 1276 ea. **$4.95**

Boston Style, Paraffined, Brown Duck. Full Length Waterproof. Lined over the back. Shpg. wt., 6 lbs.

31 K 1277 Ea.. **$5.90**

Army Duck Storm Cover. Shpg. wt., 6 lbs.

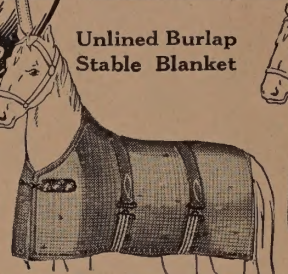
31 K 1278 Ea **$5.25**

Lumberman Storm Blanket

This Lyman Blanket serves excellently in stormy weather. Extra large, strong and well made of 8-ounce white duck. Fancy kersey lined with duck understay, self gore and quilted. Size: 80x84 ins. Shpg. wt., 8 lbs.

31 K 1342..... **$4.25**

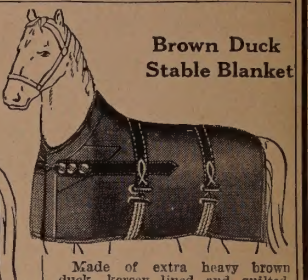
Unlined Burlap Stable Blanket



This 10-ounce unlined burlap blanket will give good service. It is strongly reinforced and furnished with strong 2-inch jute girths and FIXFIT attachment. Length, 76 ins. Shpg. wt., 3¼ lbs.

31 K 1338 Unlined Burlap Stable Blanket. Price.. **$1.15**

Brown Duck Stable Blanket



Made of extra heavy brown duck, kersey lined and quilted. Facing is red duck trimmed with two extra strong 2-inch Baker jute girths. Is very well made, has FIXFIT attachment and will give long, hard wear. You will be well pleased with this good blanket. Furnished in two sizes.

31 K 1332 Length, 76 inches. Shpg. wt., 5½ pounds. **$3.05**
Price.....

31 K 1334 Length, 80 inches. Shpg. wt., 6½ lbs. Price. **$3.25**

Rival Square Blanket

A very attractive and serviceable blanket. Drop box plaid with black ground, red and yellow stripes. Hair and cotton.

31 K 1296 76x80 ins. Shpg. wt., 6 lbs. Price..... **$2.95**

31 K 1297 80x84 ins. Shpg. wt., 7 lbs. Price..... **$3.35**

31 K 1298 84x90 ins. Shpg. wt., 8 lbs. Price.. **$3.65**

Gorham Plaid Robe

A mixture of blue and gray, white and green. Over half wool and balance cotton. 52x70 ins. Shpg. wt., 4½ pounds.

31 K 1377 Price..... **$3.35**

Baffin Single Plush Robe

Made of beautiful dark green plush with black back. An excellent value.

31 K 1388 54x70 inches. Shpg. wt., 5 lbs. Ea.. **$5.95**

31 K 1390 London Double Plush, 54x72. Shpg. wt., 7¾ lbs. Price..... **$6.90**

Aberdeen Robe

A seal brown, vicuna, navy green and white plaid. About three fourths wool and balance cotton. 60x80 ins. Shpg. wt., 4½ lbs.

31 K 1362 Price..... **$6.25**

Monroe Square Blanket

The Munroe is a low priced blanket but a very good value for the money. It has a brown ground with a black, red, yellow and green headiug; black and green stripes About ¾ cotton. balance hair.

31 K 1287 76x80 ins. Shpg. wt., 5 lbs. Price.. **$2.65**

31 K 1288 80x84 ins. Shpg. wt., 6½ lbs. Price..... **$3.05**

31 K 1289 84x90 ins. Shpg. wt., 7 lbs. Price..... **$3.75**

Over Half Wool Filling; Balance Cotton Warp

Bombay Square Blanket

A warm and fleecy blanket that is the horse's best friend in cold weather. Brown ground with red, blue and green striping in the body and border.

31 K 1305 80x84 in. Sh. wt., 6½ lbs. **$4.35**

31 K 1306 84x90 in. Sh. wt., 7½ lbs. **$4.90**

Geneva Robe

The Geneva Robe has a bright colorful pattern with a mixture of red, yellow and white plaid on a brown ground. Over half wool filling; balance cotton warp.

Shpg. wt., 4¼ lbs. Size, 72x54-in.

31 K 1361 Price..... **$3.55**

5-lb. All Wool

Kingston Robe

The Kingston is a very high grade all wool robe guaranteed to give excellent service. It is double woven in a most beautiful patterned red plaid on a blue ground with plain blue back. Measures 60x80 inches. Shpg. wt., 5½ lbs.

31 K 1385 Price..... **$8.65**

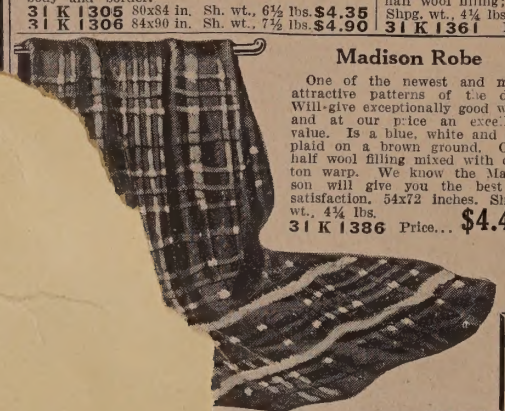
Belgrade Square Blankets

A golden brown ground and a mixture of seal, crimson, dark green and olive colors. Over half wool and balance cotton.

31 K 1307 80x84 in. Sh. wt., 7 lbs. **$5.40**

31 K 1308 84x90 in. Sh. wt., 8 lbs. **$6.25**

31 K 1309 90x96 in. Sh. wt., 9 lbs. **$7.10**



Madison Robe

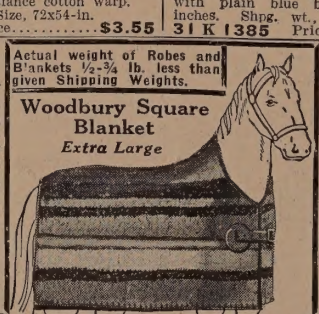
One of the newest and most attractive patterns of the day. Will give exceptionally good wear and at our price an excellent value. Is a blue, white and tan plaid on a brown ground. Over half wool filling mixed with cotton warp. We know the Madison will give you the best of satisfaction. 54x72 inches. Shpg. wt., 4¼ lbs.

31 K 1386 Price... **$4.45**

Actual weight of Robes and Blankets ½-¾ lb. less than given Shipping Weights.

Woodbury Square Blanket

Extra Large



The Woodbury has always been a popular pattern with our customers. Extra large and serviceable. **Mixed COLORS: Brown, gray, with black, red and blue border and stripes.** Over half cotton warp; balance shoddy mixture. Size, 84x90 ins. Shpg. wt., 7½ lbs.

31 K 1302 Price..... **$2.90**

Clyde Robe—*All Wool*

This is our most attractive offering this season both in beauty of pattern as well as wearing qualities. We specially recommend the Clyde. It is firmly woven in plaid pattern, colors of crimson, red and white with back of a dark rich green. Made of all wool. 60x80 ins. Shpg. wt., 5½ lbs.

31 K 1387 Price..... **$11.85**

Delivery Charges on Every Article on This Page

This is Your Farm Equipment BARGAIN BOOK

THIS book brings to you a wonderfully complete Farm Equipment Store. In it you will find pictured and described practically everything in the way of Equipment needed for your farm — separators, gasoline-kerosene engines, saw frames, harness and dozens of other things that you need. For months we have been preparing this book to show you a new, complete stock—far more complete than the average retail implement store, and everything quoted at prices that are so low as to seem almost unbelievable.

The Charles William Stores, of which our Farm Equipment store is a big special store, has been selling equipment to thousands of satisfied farmers throughout the east for many years.

Our guarantee, printed below, is your assurance of the quality and reliability of the merchandise you buy. It means that if anything bought from us is not entirely satisfactory, you may return it and we will refund your money and pay transportation charges both ways. If our farm equipment were not exceptionally good and our prices exceptionally low we could not assume the risk of your being satisfied.

In regard to repair work, that all-important factor, we are able to render you a service so complete and prompt that you will be astonished. We carry large stocks of all farm machines and parts in our warehouses ready for immediate shipment. In some instances, where it is to the customer's advantage, we ship direct from the factory. We are therefore well prepared to give you quick, careful and expert attention in the matter of service.

WE GUARANTEE that the merchandise shown in this catalog is exactly as illustrated and described.

WE GUARANTEE to give you full and complete satisfaction when you purchase from us; that articles sold you represent full value—a real saving—and will give you the satisfaction you have a right to expect. IF, for any reason, you are not fully satisfied with any article purchased from us, we ask you to return it at once, at our expense, and we will either exchange it for something else, or if you wish, we will return your money and any transportation charges you may have paid. CHARLES WILLIAM STORES New York City

Freight, Parcel Post and Express Rates to Your Vicinity

By using this table in connection with the freight classification shown below, you can determine very closely the amount of freight charges on any goods you may order. If your own town is not shown, you can estimate the charges to your town very closely by taking the rate given for the listed town which is nearest you.

Freight Classification

Article	Group
Auto Body, K.D.	1½ x A
Beehives, K.D.	C
Brooders	B
Buggy Tops	1½ x A
Carts, Barrel	A
Cider Mills	B
Concrete Mixers	B
Cream Separators	B
Cutters, Bone	B
Cutters, Feed	C
Drills, Grain, K.D.	C
Egg Carriers	B
Engines, Gasoline	A
Fanning Mills, K.D.	B
Feed Grinders	B
Feed Mills, K.D.	2 x A
Fenders, Auto	A
Food Cookers Stock	A
Forks, Hay	
Gas Engines (See Engines)	B
Grist Mills, Hand, Boxed	A
Harness and Saddles	C
Harrows, K.D.	B
Hay Carriers	
Heaters (Sheet Iron or Sheet Steel) with cast iron bases and tops	C
Heaters, Tank	B
Hoists	B
Incubators	B
Litter Carriers	A
Mandrels, Saw	C
Oil, Harness	C
Plows, Riding	C
Plows, Walking	
Portable Saw Rig, viz.:	
Gas Engine	B
Engine Truck	A
Belt Tightener	B
—Saw Frame	B
Pulley	B
Belting	B
Saw Blades	B
Saw Frames, K.D.	C
Scrapers, Road	B
Sleds, Bob	A
Sprayers, Field	D
Stump Pullers, K.D.	B
Tanks, Steel	B
Trucks, Engine, K.D.	2 x A
Vehicles; crated under 34 ins. in height	

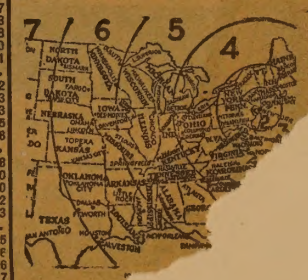
Claims for Loss or Damage

Be sure to examine the package or case very carefully before removing it from the station, and if you find anything wrong with the outside appearance, get your agent to make a note of it on the freight bill. Do this before you remove the goods from the station, as it might be difficult to get the notation later. If any of the articles listed on your freight bill are missing or damaged, be sure to have your agent make a notation on the freight bill and then send it to us promptly with a letter of explanation.

FROM NEW YORK TO	Zone	Freight Rates In Dollars and Cents Per 100 Lbs. Group A	Group B	Group C	Group D	Express Rate per 100 Lbs.
Alabama						
Florence	5	2.17	1.87	1.64	1.39	$5.41
Gadsden	5	1.97	1.69	1.50	1.25	4.71
York	5	2.03	1.75	1.54	1.30	5.47
Connecticut						
Putnam	2	.67	.59	.47	.38	1.59
Wallingford	2	.57	.48	.38	.29	1.25
Delaware						
Dover	2	.70	.60	.51	.38	1.45
Georgetown	2	.70	.60	.51	.38	1.94
District of Columbia						
Washington	3	.70	.60	.51	.38	1.94
Florida						
High Springs	5	2.08	1.99	1.63	1.59	5.27
Sanford	5	1.99	1.70	1.57	1.39	5.47
W. Palm Beach	5	2.73	2.37	2.11	1.98	6.10
Georgia						
Athens	5	1.89	1.62	1.43	1.22	4.57
Columbus	5	1.89	1.62	1.43	1.23	4.91
Quitman	5	1.89	1.62	1.43	1.23	5.05
Kentucky						
Bowling-Green	5	1.89	1.63	1.42	1.21	3.67
Hopkinsville	5	1.89	1.62	1.42	1.21	4.16
Lexington	4	1.42	1.25	.95	.67	3.53
Maine						
Bangor	4	.90	.79	.60	.42	2.56
Harmony	4	.90	.79	.60	.42	2.42
Rumford	3	.90	.79	.60	.43	2.28
Maryland						
Annapolis	3	.88	.75	.60	.46	1.94
Frederick	3	.77	.67	.48	.37	1.94
Massachusetts						
Northampton	2	.67	.59	.47	.35	1.59
Worcester	2	.67	.61	.49	.37	1.59
Mississippi						
Columbus	5	2.03	1.74	1.54	1.30	5.05
Hattiesburg	6	2.12	1.82	1.60	1.35	5.88
Jackson	6	2.12	1.82	1.61	1.36	5.54
New Hampshire						
Concord	3	.79	.65	.55	.42	1.94
Plymouth	3	.90	.77	.61	.44	1.94
New Jersey						
Camden	2	.42	.34	.29	.23	1.45
Trenton	2	.38	.32	.25	.18	1.25
New York						
Albany	2	.52	.42	.35	.27	1.45
Elmira	3	.67	.57	.48	.34	1.86
Rochester	3	.67	.57	.48	.34	2.00
Stony Brook, L. I.	1	.42	.35	.29	.25	1.03
Syracuse	3	.67	.57	.48	.34	1.86
North Carolina						
Asheville	4	1.67	1.43	1.27	1.06	3.88
Raleigh	4	1.33	1.14	1.00	.81	3.11
Winston-Salem	4	1.33	1.14	1.00	.81	3.11
Ohio						
Canton	4	1.01	.88	.68	.48	2.70
Dayton	4	1.20	1.05	.79	.56	3.19
Marion	4	1.11	.97	.74	.52	2.97
Pennsylvania						
Dubois	3	.80	.70	.55	.38	2.28
Harrisburg	2	.63	.54	.42	.33	1.59
Uniontown	4	.86	.75	.57	.40	2.42
Rhode Island						
Westerly	2	.67	.57	.45	.34	1.59
Woonsocket	2	.67	.61	.49	.37	1.59
South Carolina						
Columbia	5	1.67	1.43	1.27	1.06	4.08
Greenville	4	1.67	1.43	1.27	1.06	3.88
Sumter	4	1.56	1.34	1.18	1.00	3.88
Tennessee						
Jackson	5	2.03	1.75	1.54	1.30	4.64
Knoxville	5	1.79	1.54	1.35	1.16	4.08
Tullahoma	5	1.89	1.62	1.43	1.22	4.36
Vermont						
Barre	3	.90	.79	.60	.43	2.14
Bennington	2	.67	.61	.51	.38	1.45
Rutland	3	.67	.61	.51	.38	1.94
Virginia						
Danville	4	1.16	.99	.83	.61	2.97
Petersburg	3	.79	.67	.59	.48	2.36
Portsmouth	3	.79	.67	.59	.48	2.56
West Virginia						
Charleston	4	1.16	1.03	.78	.55	3.33
Clarksburg	4	.86	.76	.57	.40	2.56
Parkersburg	4	1.00	.88	.67	.47	2.84

Parcel Post and Express (Light) Rates

Pounds	Local Parcel Post Rate	Zone 1 50 Miles Parcel Post	Zone 1 50 Miles Express	Zone 2 50-150 Parcel Post	Zone 2 50-150 Express	Zone 3 150-300 Parcel Post	Zone 3 150-300 Express	Zone 4 300-600 Parcel Post	Zone 4 300-600 Express	Zone 5 600-1000 Parcel Post	Zone 5 600-1000 Express
1	$0.05	$0.05	$0.39	$0.06	$0.29	$0.08	$0.39	$0.07	$0.40	$0.08	$0.40
2	.06	.06	.39	.06	.40	.08	.40	.11	.42	.14	.43
3	.06	.07	.39	.07	.40	.10	.42	.15	.44	.20	.47
4	.07	.08	.40	.08	.42	.12	.44	.19	.45	.26	.49
5	.07	.09	.40	.09	.43	.14	.45	.23	.48	.32	.53
6	.08	.10	.42	.10	.44	.16	.47	.27	.50	.38	.57
7	.08	.11	.42	.11	.45	.18	.48	.31	.53	.44	.59
8	.09	.12	.43	.12	.45	.20	.49	.35	.57	.50	.63
9	.09	.13	.43	.13	.47	.22	.50	.39	.58	.56	.66
10	.10	.14	.44	.14	.48	.24	.53	.43	.60	.62	.69
11	.10	.15	.44	.15	.49	.26	.57	.47	.63	.68	.72
12	.11	.16	.45	.16	.50	.28	.58	.51	.64	.74	.74
13	.11	.17	.45	.17	.50	.30	.59	.55	.66	.80	.78
14	.12	.18	.47	.18	.53	.32	.60	.59	.68	.86	.83
15	.12	.19	.47	.19	.56	.34	.62	.63	.72	.92	.86
16	.13	.20	.48	.20	.57	.36	.63	.67	.74	.98	.88
17	.13	.21	.48	.21	.58	.38	.66	.71	.76	1.04	.91
18	.14	.22	.49	.22	.58	.40	.68	.75	.78	1.10	.95
19	.14	.23	.49	.23	.59	.42	.69	.79	.78	1.16	.98
20	.15	.24	.50	.24	.60	.44	.71	.83	.86	1.22	1.01
21	.15	.25	.50	.25	.62	.46	.72	.87	.87	1.28	1.03
22	.16	.26	.54	.26	.63	.48	.73	.91	.88	1.34	1.06
23	.16	.27	.54	.27	.63	.50	.74	.95	.91	1.40	1.12
24	.17	.28	.56	.28	.64	.52	.77	.99	.92	1.46	1.15
25	.17	.29	.56	.29	.66	.54	.78	1.03	.95	1.52	1.17
26	.18	.30	.57	.30	.68	.56	.79	1.07	.98	1.58	1.20
27	.18	.31	.57	.31	.69	.58	.80	1.11	1.00	1.64	1.22
28	.19	.32	.58	.32	.69	.60	.86	1.15	1.02	1.70	1.27
29	.19	.33	.58	.33	.71	.62	.86	1.19	1.03	1.76	1.30
30	.20	.34	.59	.34	.72	.64	.87	1.23	1.06	1.82	1.32
31	.20	.35	.59	.35	.73	.66	.89	1.27	1.10	1.88	1.36
32	.21	.36	.60	.36	.74	.68	.91	1.31	1.12	1.94	1.39
33	.21	.37	.60	.37	.74	.70	.92	1.35	1.15	2.00	1.44
34	.22	.38	.62	.38	.77	.72	.93	1.39	1.18	2.06	1.46
35	.22	.39	.62	.39	.78	.74	.95	1.43	1.18	2.12	1.49
36	.23	.40	.63	.40	.79	.76	.97	1.47	1.21	2.18	1.49
37	.23	.41	.63	.41	.83	.78	1.00	1.51	1.22	2.24	1.52
38	.24	.42	.64	.42	.83	.80	1.01	1.55	1.26	1.30	1.56
39	.24	.43	.64	.43	.84	.82	1.02	1.59	1.27	2.36	1.59
40	.25	.44	.66	.44	.86	.84	1.03	1.63	1.30	2.42	1.63
41	.25	.45	.66	.45	.86	.86	1.04	1.67	1.32	2.48	1.66
42	.26	.46	.68	.46	.87	.88	1.06	1.71	1.35	2.54	1.68
43	.26	.47	.68	.47	.87	.90	1.09	1.75	1.37	2.60	1.72
44	.27	.48	.69	.48	.88	.92	1.11	1.79	1.37	2.66	1.75
45	.27	.49	.69	.49	.89	.94	1.12	1.83	1.42	2.72	1.78
46	.28	.50	.71	.50	.91	.96	1.15	1.87	1.47	2.78	1.80
47	.28	.51	.71	.51	.92	.98	1.16	1.91	1.48	2.84	1.84
48	.29	.52	.72	.52	.92	1.00	1.17	1.95	1.49	2.90	1.89
49	.29	.53	.72	.53	.95	1.02	1.18	1.99	1.50	2.96	1.90
50	.30	.54	.73	.54	.95	1.04	1.20	2.03	1.52	3.02	1.93
51	.30	.55	.73	.55	.97						
52	.31	.56	.74	.56	.98						
53	.31	.57	.74	.57	.98						
54	.32	.58	.76	.58	1.00						
55	.32	.59	.76	.59	1.01						
56	.33	.60	.77	.60	1.02						
57	.33	.61	.77	.61	1.03						
58	.34	.62	.78	.62	1.03						
59	.34	.63	.78	.63	1.05						
60	.35	.64	.79	.64	1.06						
61	.35	.65	.79	.65	1.08						
62	.36	.66	.83	.66	1.10						
63	.36	.67	.83	.67	1.10						
64	.37	.68	.84	.68	1.12						
65	.37	.69	.84	.69	1.13						
66	.38	.70	.86	.70	1.15						
67	.38	.71	.86	.71	1.16						
68	.39	.72	.87	.72	1.16						
69	.39	.73	.87	.73	1.17						
70	.40	.74	.88	.74	1.18						



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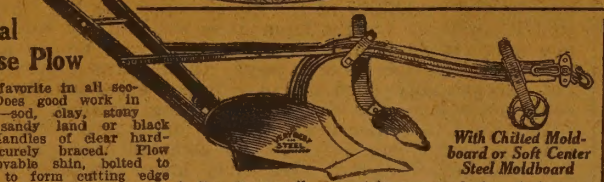
Richland Reliable Implements

General Purpose Plow



With Chilled Moldboard or Soft Center Steel Moldboard

A big favorite in all sections. Does good work in all soils—sod, clay, stony ground, sandy land or black loam. Handles of clear hardwood securely braced. Plow has removable shin, bolted to standard to form cutting edge of moldboard. A long, smooth incline turns soil completely over, reducing draft to a minimum. Double beaded beams are guaranteed not to bend or break. Width of furrow can be regulated from 8 to 12 inches; depth, 2 to 7 inches. This plow has given universal satisfaction and will surely please you at our low price.

19 K 1305B General Purpose Plow with chilled Moldboard and extra Share without Jointer or Gauge Wheel. Shpg. wt., 120 pounds. Price..... **$13.95**

19 K 1329B General Purpose Plow. Same as 19 K 1305B. Left Hand. Shipping weight, 120 pounds. Shipped from factory in New York. Price..... **$13.85**

19 K 1304B General Purpose Plow, with soft center Moldboard, without Jointer or Gauge Wheel. Shipping weight, 120 pounds. Price..... **$15.95**

19 K 1330B General Purpose Plow. Same as 19 K 1304B. Left Hand. Shipping weight, 120 pounds. Shipped from factory in New York. Price, each..... **$15.25**

19 K 2004A Jointer for General Purpose Plows. Shpg. wt., 12 lbs. Price, each. **$3.10**

19 K 2005A Coulter for General Purpose Plows. Shpg. wt., 12 lbs. Price, each. **3.15**

19 K 2006A Gauge Wheel General Purpose Plows. Shpg. wt., 10 lbs. Price, each **1.60**

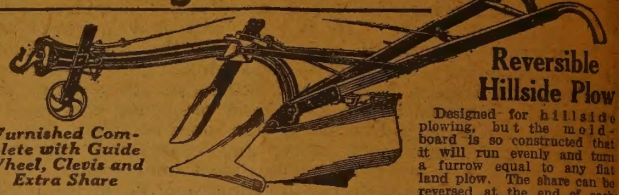
19 K 2007A Extra cast Share for 19 K 1304B-1305B Plows. Shipping weight, 10 lbs. Price, each..... **80c**

19 K 2008A Extra S. C. Share for 19 K 1329B-1330B Plows. Shipping weight, 10 lbs. Price, each..... **83c**

19 K 2009A Extra Shin Piece for 19 K 1304B-1329B Plows. Shpg. wt., 3 lbs. Ea. **75c**

19 K 2010A Extra Shin Piece for 19 K 1305B-1330B Plows. Shpg. wt., 3 lbs. Ea. **75c**

Reversible Hillside Plow



Furnished Complete with Guide Wheel, Clevis and Extra Share

Designed for hillside plowing, but the moldboard is so constructed that it will run evenly and turn a furrow equal to any flat land plow. The share can be reversed at the end of each furrow so that all furrows can be turned the same way. The shifting mechanism is placed above the beam, which prevents it from becoming clogged with dirt or trash. Moldboard is of soft center steel, reverses easily and locks automatically, always in direct line with the share. The share and shoe are of the best chilled iron. The standard and sub-shoe are of the best malleable iron. A long lever reaches over the plow from the lead wheel to the handles, so that the width of the furrow can be controlled without stopping the team. This plow is a standard 12-inch, but can be adjusted to turn a narrow furrow. We absolutely guarantee this plow, and believe you could not get a better value elsewhere.

19 K 1301B Reversible Hillside Plow, equipped with guide wheel, clevis and extra share. Price, each..... **$19.95**

19 K 2017A Automatic Jointer for above Plow. Shpg. wt., 15 lbs. Price, ea.. **$3.25**

19 K 2018A Automatic Coulter for above Plow. Shpg. wt., 15 lbs. Price, ea.. **3.25**

19 K 2019A Extra Shares for Reversible Hillside Plow. Shipping weight, 10 pounds. Price, each..... **90c**

One Horse Reversible Hillside Plow

$11.85

With Extra Share and Gauge Wheel

This new One Horse Reversible Hillside Plow has proven a big favorite. It is an excellent light plow with cast moldboard and chilled share. The beam is of clear, well-seasoned oak, equipped with a reliable side shifting clevis, which will be found a great convenience. The side shifting lever clevis is so arranged that the horse can go in furrow both ways. Capacity, 4 to 6 inches deep; 8 to 11 inches wide. Will do equally good work on flat land. We recommend this plow to our customers who prefer a small hillside plow that can be used with one horse. Shipped from factory in New York.

19 K 1331 One Horse Reversible Hillside Plow with extra share and gauge wheel. Shipping weight, 85 pounds. Price, complete..... **$11.85**

19 K 1332 One Horse Reversible Hillside Plow, with coulter, gauge wheel and extra cast share. Shpg. wt., 95 lbs. Price, complete..... **$14.15**

19 K 2060 Extra Share. Shipping weight, 3 pounds. Price, each..... **.70**

Potato Hiller and Digger

Two Tools in One

Practically every farmer has use for a wing hiller for cultivating potatoes and a digger for harvesting them. With this handy implement you can do **BOTH** of these jobs. The hiller bottom has adjustable hinged wings and can be used for any purpose for which a shovel plow is used. And it is but a moment's work to take off hiller and attach digger bottom, which will remove potatoes without cutting them. This bottom has a broad surface fitted with 8 steel rods for separating potatoes from dirt and vines. Save the cost of an extra implement with this Hiller and Digger.

19 K 2038A Cast Beam Shovel Plow with Potato Digger Attachment. Shipping weight, 90 pounds. Price, complete.... **$11.25**

19 K 1328B Cast Beam Shovel Plow only. Shipping weight, 75 pounds. Price, each..... **$7.95**

Potato Digger

A First Class Dependable Small Digger

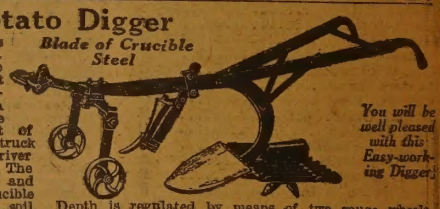
Leaves Soil in Excellent Condition Without Ridges

The price we ask for this good potato digger is so small that no one who raises potatoes can afford to be without it. It throws the potatoes out of the ground and cleans them without cutting and leaves the ground in good condition without ridges. The beam is of best steel. Has a heavy steel blade to which steel separating fingers are attached, and adjustable wheel to regulate depth. Handles adjustable up or down. Shipping weight, 105 pounds.

19 K 1461H Potato Digger. Price, each..... **$11.85**

Shaker Potato Digger

Blade of Crucible Steel



You will be well pleased with this Easy-working Digger

This potato digger has many special advantages. The ratchet wheel gives the hinged separator a constant up and down motion screening dirt from potatoes. A weed fender clears away the weeds and vines in front of shovel. The gauge wheel truck makes guiding easier for driver and lessens draft on horse. The beam is bar steel, strong and rigid. The blade is of crucible steel and will scour in any soil. Depth is regulated by means of two gauge wheels. Truck straddles row. Shipping weight, 200 pounds.

19 K 1460H Shaker Digger complete with Truck. Price..... **$22.65**

Hand Garden Plow and Cultivator

Makes Your Garden Jobs a Pleasure. Ten Tools in One

Here is one of the best combination garden tools made. With it you can plow, trench, hoe, cultivate, mulch, cover, weed, or hill—in fact any job except that of plant. It can be used with one wheel for working between rows or two wheels for working astride rows. Please note that the handles are attached directly to the axle, which makes guiding much easier than when handles are attached back of wheel center to tools. Castings made by famous Coleman process. Frame is entirely steel. Areh is 22 ins. high, of extra strength, and wide enough to work easily astride row. Wheels, 16 ins. diam. Handles adjustable. These attachments are furnished: 2 plows, 2 6-in. hoes, 2 rakes, 6 cultivating teeth. Shipping weight, 45 pounds. **$6.65**

19 K 1400B Garden Plow and Cultivator complete. Price..

19 K 2203 Spring Tooth Weeder Attachment extra. Shpg. wt., 3 lbs. Price, each..... **$1.10**

Cahoon Seeder

This machine is easily the leader in its class. It has a pressed steel frame, securely riveted to the back. This rigid construction brings all shafts in line and makes the gears mesh perfectly. Shafts are of cold rolled steel. The control gate can be adjusted to flow of seed. It will sow wheat, oats, barley, rye, buckwheat, rice, hemp and other grain and grass seed five times faster than by hand. It does the work perfectly with a saving of at least one-third of the seed used by other methods. Shpg. wt., 8 lbs.

19 K 31B Price..**$4.50**

General Purpose Cultivator

One of the Best All Around Cultivators.

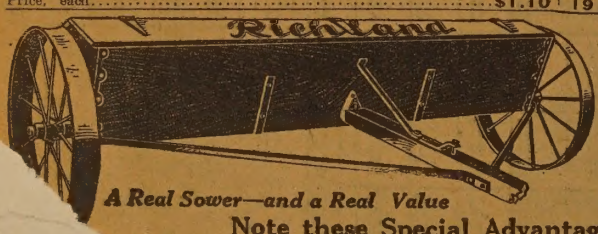
Can be adjusted to 5 different positions.

This implement will do all the work that can be done with the wood beam cultivator and will do it **quicker** and **easier**. It is indispensable in the cultivation of corn, cotton, tobacco and other crops. Each side of the cultivator is controlled by a separate lever. In this way the position of the teeth may be changed to a V-shaped tool. By throwing one lever forward and the other lever backward, the cultivator is changed into a right or left hand side harrow for side hill work. In irregular width rows, the cultivator may be expanded or contracted to conform to the width by a single motion of the levers without stopping the team. To straddle row, remove center tooth. Width across, 33 inches. Furnished with fenders. Note width of teeth from tooth shown in foreground. Shipping weight, 65 pounds.

19 K 1411B General Purpose Cultivator, complete..... **$7.85**

Richland Fertilizer Sower

Over 2,500 Sold and Every One Satisfactory



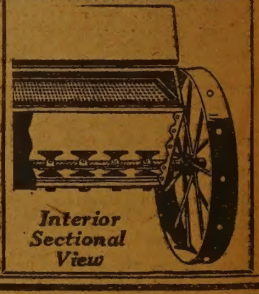
A Real Sower—and a Real Value

Our Richland Force Feed Fertilizer Sower is a standard, time tried machine with no complicated gears, cranks or shakers. As you will note, it has all the desirable features of a first class sower—but sold at our usual low price. It sows lime, ashes and plaster fertilizers, without clogging, and from 100 to 4,000 pounds to the acre. In operation, the wheels revolve the feed device, at the same time agitating the fertilizer in the hopper. Both wheels drive, making even sowing at all times—even when turning. Built low down—close to the ground so that it can be easily loaded in windy weather. Machine can be quickly put out of operation by simply changing cotter in drive shaft. Wheels then cease to rotate the feed device and cut off fertilizer distribution.

Note these Special Advantages of the Richland Sower

of the Box is non-corrosive, fitting close to the distributors, leaving no chance for fertilizers to accumulate in the bottom a continuous flow of the material being sown. Discharge Openings are but 5 inches apart, and require no spreaders. Sower ated by hand lever to sow accurately any desired quantity; can be opened or closed instantly. The drive shaft is 1¼ inch eel cut in the center, making a continuous drive, and obviating the necessity of having ratchets in the wheels. The Feed attached to the drive shaft, which passes through the box, and in connection with two reds extending the length of the tation. Width of Spread 8 feet. Wheels Regular—are all metal, 32 inches high, 3½-inch tires. Hitch—the Sower pping weight, 300 pounds. Shipped from New York City.

Force Feed Lime and Fertilizer Sower, without neck yoke or eveners..... **$39.90**



Interior Sectional View

Produce Big Crops at Low Cost

Steel Frame Spring Tooth Harrow

Particularly adaptable for rough work in stony and stumpy sections. All parts with the exception of the draw bar are made of steel and malleable iron. The frame is made of angle steel and protected on the bottom by heavy steel runners. Teeth are of excellent high carbon spring steel, fastened to the pipe tooth bars with malleable clips, which are far superior to the old method of bolting the teeth. The tooth bars are heavy tubular steel.

19 K 1370D Spring Tooth Harrow, 15 teeth with sliding shoes. Width, 6½ feet. Shpg. wt., 225 lbs. Price, each..... **$19.60**

19 K 1371D Spring Tooth Harrow, 17 teeth with sliding shoes. Width, 6¾ feet. Shpg. wt., 240 lbs. Each. **$22.40**

19 K 2256 Teeth. Shpg. wt., 6 lbs. Price, each.. **98c**

Harrow Cart

Takes the hard work out of the hardest job on the farm—plodding behind the Harrow. Relieve yourself of this task with a Richland Harrow Cart. The expense is small in comparison to the labor it saves and it adds very little to the draft of the harrow. The pivot axle feature of the Richland overcomes the one complaint against harrow carts, as it is suitable for flat land work as well as hillside or uneven land. The wheels may be locked with a foot lever so the cart will run in line of draft, or they may be locked at an angle for hillside work. For turning, the lock lever is released by a foot pedal, permitting the wheels to roll in exact line of draft. Cart of high carbon steel; wheels 26 inches high with broad tires. Fitted with dustproof boxes. Shpg. wt., 150 pounds.

19 K 2257D Sale Price..... **$14.85**

Closed End Harrow

The Richland Closed End is a reliable and durable "pet tooth" with every modern feature for good work. The closed ends prevent catching on tree stumps and fences. Each section is furnished with a steel lever by which the teeth can be set at any desired angle for releasing trash, pulverizing soil or smoothing. Beams are made of high carbon U-shaped steel bars that will not bend. The curved end bars are heavy and make the sections very rigid. The teeth are 8 inches long, made of high carbon steel with heads, which prevents dropping out. Held in place by strong, double grip clamps. 9/16-inch teeth. Hardwood drawbar (not furnished with 1 section). Castings and braces of malleable iron.

	Teeth	Sections	Width	Shpg. Wt., Lbs.	Price.
19 K 1386D	25	1	3½ ft.	80	$7.55
19 K 1387D	50	2	7½ ft.	180	17.87
19 K 1388D	80	1	3½ ft.	90	7.85
19 K 1389D	60	2	7¾ ft.	200	18.57

Extra Teeth and Harrow Teeth Clamps Listed on Page 16.

Steel Frame Cultivator

Recommended for deep working and where no furrow is to be thrown to or from crop. Compound lever expander permits spacing from 9 to 26 ins. Depth can be regulated. Frame, channel steel with five reversible shovels.

19 K 1417B Steel Frame Cultivator and handle braces without lead wheel and horse hilling attachment. Shpg. wt., 40 lbs. Each.. **$5.60**

19 K 1418B Cultivator with a set of 3 horse hoe attachments for hilling, consisting of a right and left side shovel and center blade, lead wheel and handle braces. Shpg. wt., 50 lbs.... **$7.60**

19 K 2202B Lead wheel. Wt., 6 lbs. Ea. **65c**

19 K 2204B Hilling Attachments only. Shpg. wt., 7 lbs. Price, each..... **$1.25**

14-Tooth Steel Cultivator

Good for working close to small plants—corn, cotton, tobacco, potatoes and the like. It pulverizes but does not throw soil on plants. Also used as a straight diamond tooth harrow as well as a smoother with sharp points down. Position of teeth may be varied to suit work. Cuts 9 to 26 inches. Can be set straight, slanting and are adjustable to height. Compound lever expanders. All channel steel construction except handles. Shpg. wt., 50 lbs.

19 K 1410B Cultivator, complete..... **$6.48**

19 K 2215A Extra Teeth. Shpg. wt., 1 lb. Price, each..... **14c**

Spring Tooth Cultivator

Many farmers prefer this arrangement. Unequaled for surface cultivation or orchard mulching. Spring teeth may be set at any angle. No danger of breaking teeth against an obstruction. Width may be adjusted from 9 to 32 ins. Teeth are of high grade steel. Frame is all steel. Shpg. wt., 45 lbs.

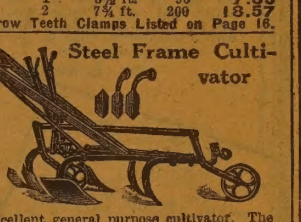
19 K 1420B Price..... **$6.15**

19 K 2205B Attachment with two teeth and connections to make 7-tooth cultivator. Shpg. wt., 2 lbs. Price. **$1.45**

19 K 2202B Lead Wheel. Shipping weight, 6 pounds. Price, each..... **65c**

19 K 2207 Spring Teeth. Shpg. weight, 3 pounds. Price, each..... **65c**

Steel Frame Cultivator

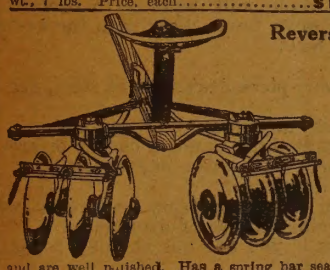


An excellent general purpose cultivator. The lever wheel and rear wheel enable the operator to control the working depth of the teeth and the cultivator runs more steadily—relieving the operator of the strain of holding the implement from running too deep. For transporting from field teeth can be raised off ground by means of lever wheel, which also enables the regulation of depth, while in operation and also makes it easier to turn at the end of row. Width can be changed from 9 to 26 inches. Frame is solid steel. Furnished with five 2½-inch reversible shovels, horse hoe attachments for hilling and drilling. Shipping weight, 65 pounds.

19 K 1419B Cultivator, complete. **$8.95**

Reversible Disc Harrow and Cultivator

Shipped from New York City



This disc can be used either as a harrow or a cultivator and is designed especially for gardeners and small farmers, but it is adapted to such a great variety of work that it is found exceedingly useful on large farms. **The 16-inch discs can be set at any angle and are reversible.** The gangs can be set close together for harrowing or can be separated 14¼ inches for cultivating grain, hilling potatoes, corn and tobacco. The boxes or bearings are hard maple, oil soaked, mounted in dustproof boxes. Discs are made of drop forged steel, of uniform thickness, have a deep concave, tempered to retain their cutting edge, and are well polished. Has a spring bar seat, strong pole rigidly braced. **$29.40**

19 K 1376D 6 Discs. 3 foot width of cut. Shpg. wt., 275 lbs..... **$29.40**

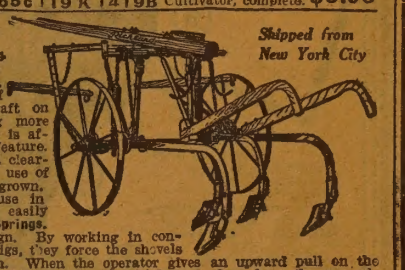
19 K 1377D 8 Discs. 4 foot width of cut. Shpg. wt., 350 lbs..... **$31.75**

31 K 2060B Two-horse Hitch. Shpg. wt., 12 lbs..... **1.85**

31 K 2065B Three-horse Hitch. Shpg. wt., 28 lbs..... **4.65**

Two-Horse Walking Cultivator

Shipped from New York City



With this cultivator the work is always in sight. It can be easily guided and avoids digging up plants. Note the great range of adjustment of the singletrees, also the direct draft on gangs, preventing one horse doing more work than the other. Operating ease is afforded by the sweave lift, a big feature. **High Arch Frame.** The frame has a clearance of 36 inches, which permits the use of this cultivator until the crops are well grown. The frame is also adjustable for use in wide or narrow rows. Quickly and easily adjusted to any width. **Balance Springs.** The balance springs are a new design. By working in connection with the direct draft on the rigs, they force the shovels into the ground to any desired depth. When the operator gives an upward pull on the handles the spring comes into play and lifts the rigs high and clear from the ground, where they may be hooked up for easy transportation. **This cultivator is also furnished with eight spring teeth, which are suitable for use in light, sandy soils.**

19 K 1414D Cultivator, with 4 shovels, pin break. Shpg. wt., 225 lbs. Each.. **$22.80**

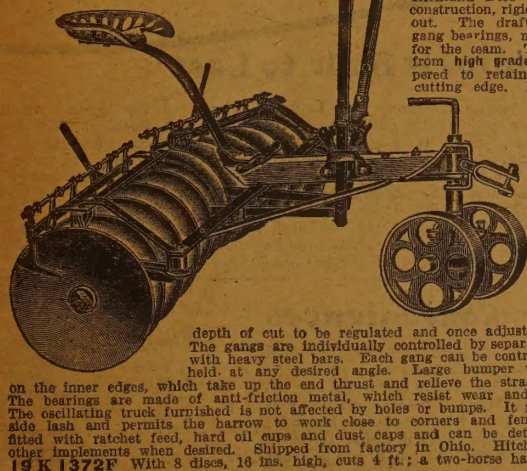
19 K 1415D Cultivator, with 6 shovels, pin break. Shpg. wt., 275 lbs. Each.. **23.85**

19 K 1416D Cultivator, with 8 shovels, spring teeth. Shpg. wt., 275 lbs. Each.. **28.65**

19 K 2201 Extra shovels. Shpg. wt., 2 lbs. Price..... **.83**

Richland Disc Harrow

A Standard Machine—All Desirable Features



The Richland Disc Harrow is a standard, dependable machine with every desirable feature for quick, thorough discing. The frame of the Richland Disc Harrow is of steel construction, rigidly braced throughout. The draft, direct from the gang bearings, makes pulling easier for the team. The discs are made from high grade steel, finely tempered to retain a constant keen cutting edge. Each disc is provided with an individual scraper, which thoroughly cleans from center to edge, keeping all cutting blades free from dirt. The harrow penetrates the hardest soil, breaking up clods and lumps and leaving the soil in excellent shape. Discs are 16 inches in diameter, deeply concaved. Adjustable bars allow the depth of cut to be regulated and once adjusted remain uniform. The gangs are individually controlled by separate levers, connected with heavy steel bars. Each gang can be controlled separately and held at any desired angle. Large bumper washers are placed on the inner edges, which take up the end thrust and relieve the strain on the bearings. The bearings are made of anti-friction metal, which resist wear and will not cut out. The oscillating truck furnished is not affected by holes or bumps. It relieves the team or side lash and permits the harrow to work close to corners and fences. The truck is fitted with ratchet feed, hard oil cups and dust caps and can be detached and used on other implements when desired. Shipped from factory in Ohio. Hitch from N. Y. City.

19 K 1372F With 8 discs, 16 ins. high, cuts 4 ft.; a two-horse harrow. Shpg. wt., 400 lbs. Price, each..... **$30.25**

19 K 1373F With 10 discs, 16 ins. high, cuts 5 ft.; a two-horse harrow. Shipping weight, 430 pounds. Price, each..... **$33.90**

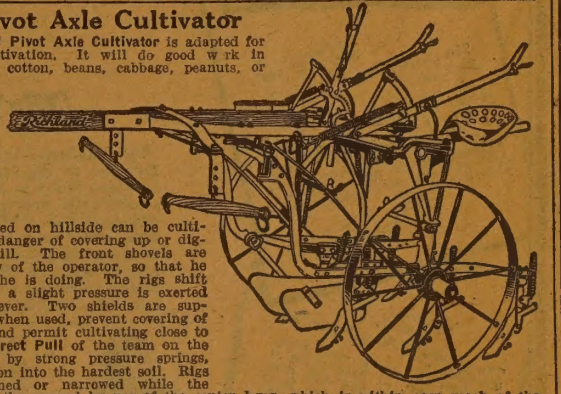
19 K 1374F With 12 discs, 16 ins. high, cuts 6 ft.; a three-horse harrow. Shipping weight, 490 pounds. Price, each..... **$35.35**

19 K 1375F With 14 discs, 16 ins. high, cuts 7 ft.; a three-horse harrow. Shipping weight, 530 pounds. Price, each..... **$39.85**

31 K 2060B Two-horse Hitch. Shpg. wt., 12 lbs. Each..... **1.85**

31 K 2065B Three-horse Hitch. Shpg. wt., 28 lbs. Each..... **4.65**

Pivot Axle Cultivator



The Richland Pivot Axle Cultivator is adapted for all around cultivation. It will do good work in corn, potatoes, cotton, beans, cabbage, peanuts, or any crop grown by the farmer. **Wide Range of Adjustment.** With this Cultivator you can successfully cultivate rows from 26 to 43 inches apart. **Crooked Rows or Crops** planted on hillside can be cultivated without danger of covering up or digging out a hill. The front shovels are always in view of the operator, so that he can see what he is doing. The rigs shift instantly when a slight pressure is exerted on the foot lever. Two shields are supplied, which, when used, prevent covering of small plants and permit cultivating close to them. **The Direct Pull** of the team on the rigs, assisted by strong pressure springs, gives penetration into the hardest soil. Rigs may be widened or narrowed while the shovels are in the ground by use of the center lever, which is within easy reach of the driver. The running depth of the shovels is regulated by lockdown levers. **Well Balanced Springs** lift the gangs from the ground when the latch on lever is released. The spring trip allows either one of the gangs to release when it comes in contact with stone or root and causes it to spring back to normal position at once. The hard labor of pushing or pulling at levers is entirely unnecessary, as the spring lifting leverage does this work easily and quickly. The entire machine, with exception of pole, is made of steel and malleable iron.

19 K 1412D Cultivator, complete, 6 shovels, **spring trip.** Shpg. wt., 475 lbs. Shipped from New York City. Price, each..... **$42.75**

19 K 1413D Cultivator 8 shovels, **spring trip.** Shpg. wt., 500 lbs. Shipped from New York City. Price, each.....

19 K 1421F Cultivator, complete, 8 shovels, **pin break.** Shpg. wt. Shipped from factory in Ohio. Price, each.....

19 K 1422F Cultivator, complete, 8 shovels, **pin break.** Shpg. Shipped from factory in Ohio. Price, each.....

19 K 2200 Extra Shovels. Shpg. wt., 1¼ lbs. Price, each.

19 K 2217 Extra Shovels with LX Backs. Price, each...

Mayflower Cream Separators

The Mayflower Has Made Good—Read These—

Used with Writers' Permission

Athol, Mass.
June 20, 1922.

The Charles William Stores, Inc.
Gentlemen:
The separator is doing perfect work. In fact it saved us about 5 pounds of butter in less than a week. It is the closest skimmer we ever had, and unlike other separators it is clean, as all the oil is inside the machine and not running down on the floor. It requires little over 5 minutes to wash it.
Very truly yours,
Geo. F. Sessions.

Lancaster, N. H.
June 20, 1922.

The Charles William Stores, Inc.
Gentlemen:
Allow me to say your Mayflower Separator is a wonder. Just simply nothing to wash. It skims the milk perfectly. It is doing just as good work today as the day we got it. There is no separator made that is so easy to keep perfectly clean, as the Mayflower. One cannot say too much in its favor.
Very truly yours,
Clarence E. Nourse.

Tully, N. Y.
April 15, 1922.

The Charles William Stores, Inc.
Dear Sirs:
We are well pleased with the work of our Mayflower. It works fine.
Whenever I get a chance I praise your separator.
Yours truly,
Bert Benn.

Willisburg, Ky.
June 27, 1922.

The Charles William Stores, Inc.
Dear Sirs:
I am writing to tell you about my Mayflower Cream Separator. I just like it fine. It is the best separator I have ever seen. It runs good and is a great help to me. Every one who has seen my separator says they like it fine.
Yours truly,
Robert Barr.

Henderson, N. C.
May 6, 1922.

The Charles William Stores, Inc.
Gentlemen:
I want to say a word about the separator. I have found it a little treasure, and only wish that every woman on the farm who has two or more cows was the possessor of one of your separators. Before getting of the separator, the handling of the milk was one terrible task. I feel that the separator has more than paid for itself in the increased amount of butter, which is always of uniform quality and commands from five cents more per pound ... dairy country butter.
... W. G. Kearney.

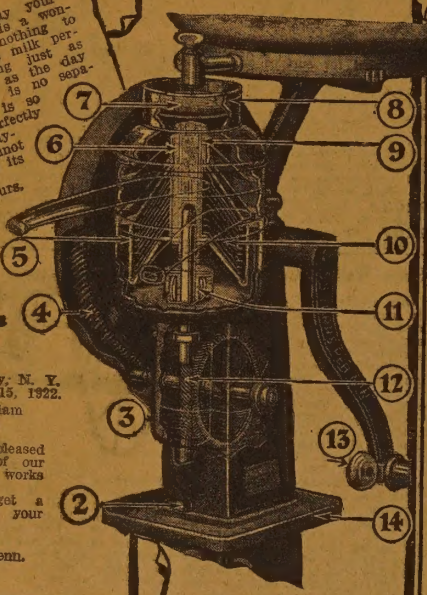
This Feature Brings the Closest Skimming Results

THE most important feature of any cream separator is the bowl. This is because the bowl separates the cream from the milk. The better the bowl, then, the bigger the cream checks, or profits, from closer skimming. There are many types of separator bowls on the market: "link blade," "wing," "suspended" "one piece," "disc" and many others, both foreign and American. The "disc" bowl, however, is generally accepted as the best type; it is used in more good separators than any other type.

The Mayflower comes under the type of "disc" bowl separators, but combines with it a special feature called a **Distributing Sleeve,** which makes it one of the most modern, and one of the closest skimming separators to be had.

It is a corrugated sleeve, as pictured, placed over the feeding post through which the milk is fed. With the centrifugal force, the milk is distributed the entire length of each channel before it can work its way to the separating discs. This **equalizes** the flow of milk between the discs, overcoming the common fault in some machines where some discs obtain more milk under greater pressure than others. Moreover, it improves the operation of the entire separator, because (1) the separation of the cream is more complete and requires 25 per cent. fewer discs to skim clean. (2) With fewer discs, the bowl is smaller, lower, and lighter running. (3) With lighter weight bowl resting on spiral shaft, practically all danger of its getting out of balance is eliminated.

Features Found Only in High Grade Separators



1. **Adjustable Pail Shelves**—can be swung aside if milk cans are to be used.
2. **Simple Lower Bearing**—has frictionless steel carrying points for longer service.
3. **Splash Oil System**—the separator is oiled but once a week in one place. The automatic oiling system oils every working part thoroughly.
4. **Helical Drive Gear**—the best possible gearing produced for strength, quiet running, and ease of operation.
5. **Simple Center Balancing Bowl**—weight is equally balanced for easiest maintenance. Is smaller of size, lighter running, and more quickly cleaned.
6. **Distributing Sleeve**—distributes whole milk equally to each skimming disc. Skims more efficiently. Requires fewer discs than the average disc machine and therefore a smaller bowl.
7. **Reversible Float**—either side up.
8. **Heavy Gauge Tinware**—made of one-piece drawn sheet steel, heavily tinned.
9. **Cream Screw Adjustment**—permits any density of cream.
10. **Sanitary Bowl**—so constructed that there is not a corner or crevice that cannot plainly be seen and reached with water and brush.
11. **Self-oiling Neck Bearing**—with dust cover.
12. **Upright Spiral Shaft**—is never removed from separator when washing bowl. A separate piece. Avoids danger of dropping.
13. **Bell Speed Indicator**—warns you if you are not running separator at correct speed for best skimming results.
14. **Drip Shelf**—keeps oil off the floor. Can be drained through Drain Cock.

Extremely simple construction, compactly arranged to prevent lost motion—every working part INTERCHANGEABLE.

The Mayflower Separator is Built to Last

The Mayflower is an American separator for the American farmer. It is made in one of the biggest separator factories in the east. It is a machine not only as near mechanically perfect as they can make it—but it is a separator built to give you years of profitable service. This is accomplished by making each part from metal scientifically proven to be the best for its particular job. That is why the pinion and entire clutch are made from case-hardened steel; the spiral shaft of phosphor bronze; the neck bearing of anti-friction, high speed metal (the same metal used in the crank shaft bearings of the best automobiles); the spiral shaft of tool steel; the tinware of one-piece drawn sheet steel; and the separator base of high grade iron, cast in one piece. That is why the farmer likes his Mayflower as well five years after he bought it as the first year. And because every part is **interchangeable,** he has the satisfaction of knowing that any gear, pinion or part, giving out through normal wear and tear, can be replaced for a new one, giving the separator many additional years of service.

Multiple Disc Clutch Pulley

The Multiple Disc Clutch Pulley will absorb every shock and deliver smooth, even-running power as well as maintain the correct speed of the bowl when connected with the proper size pulley on the line shaft. Regulated by hand enabling operator to start separator without strain on gearing. Used in place of crank. Dia., 12-in.; face, 2-in. Shipping weight, 24 pounds.

19 K 1150A Price, ea. **$9.65**

Little Conveniences

Many little conveniences are furnished with each Mayflower Separator such as—a **Disc Holder,** on which discs are put, in their natural order to wash quickly and hang up to dry; two **Cleaning Brushes;** a can of **Separator Oil;** a **Spirit Level** to set up machine properly; a **Screw Driver;** a **Bowl Vise;** 2 extra **Bowl Rings** and a **Neck Bearing Spring;** a **Wrench** and **Lag Screws.** You'll appreciate these little accessories—they mean a substantial saving in money and much added convenience.

Governor Pulley

If you use an engine this pulley will enable you to run separator at an even speed. 8-inch pulley is belted to engine or line shaft; 3-inch pulley is belted to cream separator. Speed can be adjusted regardless of speed of your engine. Shpg. weight, 35 pounds.

19 K 1151A Price. **$6.75**

Customer Pays Delivery Charges on Every Article on This Page

CHARLES WILLIAM STORES
New York City

at Money Saving Prices

Mayflower Bench Model Separators

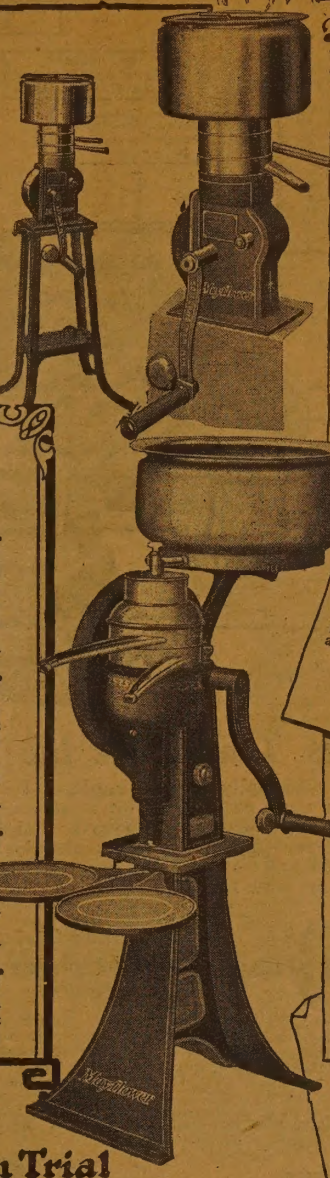
This is an ideal separator to use with one, two or three cows. It is made of the same high grade materials as the larger sizes, and is furnished without stand. Shipping weight, 70 pounds.

19 K 1100D Mayflower Bench Model Separator, **without** stand. Capacity, 250 lbs. 35 gallons per hour. Price, $32.25, payable $2.00 with order and the balance in eleven monthly payments of $2.75 each—or $28.85 cash with order.

The Bench Model Separator is also furnished with stand, as illustrated at right. In every other respect it is identical to our 19 K 1100D. The stand will be found a handy convenience, being of the right height for easy operation, and with vise in shelf at base for quick dismantling of skimming bowl. Shipping weight, 120 pounds.

19 K 1106D Mayflower Bench Model Separator **with Stand.** Capacity, 250 lbs. 35 gallons per hour. Price $38.30, payable $2.00 with your order and eleven monthly payments of $3.30 each—or $34.95 cash with order.

19 K 1101D Bench Model Separator Stand only. Shipping weight, 50 lbs. Price, cash with order **$6.98**



Mayflower Separators

(Large Style at Right)

300-lb. Capacity — 40 Gallons of Milk per Hour

We recommend this size for the farmer who milks only from three to five cows and intends to keep no larger number. If you are likely to keep more than five cows, however, we strongly recommend getting a larger size. Shipping weight, 170 pounds.

19 K 1102D Price $55.35, payable $2.00 with order and the balance in eleven monthly payments of $4.85 each—or $48.95 cash with order.

500-lb. Capacity — 60 Gallons of Milk per Hour

This is a good size for from six to eight cows. If you will not keep more than eight cows this size will give you perfect satisfaction. If, however, you are in doubt as to your future requirements, it is safer to order a 19 K 1104D or 19 K 1105D machine. Shipping weight, 175 pounds.

19 K 1103D Price $57.00, payable $2.00 with order and the balance in eleven monthly payments of $5.00 each—or $51.35 cash with order.

700-lb. Capacity — 80 Gallons of Milk per Hour

This is the size that we recommend for the average farm. It is suitable for any number of cows up to fifteen. If you intend to keep more than fifteen cows, however, the 19 K 1105D machine should be ordered. Shipping weight, 225 pounds.

19 K 1104D Price $72.40, payable $2.00 down and the balance in eleven monthly payments of $6.40 each—or $63.90 cash with order.

900-lb. Capacity — 88 Gallons of Milk per Hour

This is the largest size Mayflower Separator. It will handle the milk from as many as twenty-five cows. Many of our customers also buy this size for from eight to twenty cows, because it does the skimming in a shorter length of time. Shipping weight, 230 pounds.

19 K 1105D Price $76.80, payable $2.00 with order, and the balance in eleven monthly payments of $6.80 each—or $68.75 cash with order.

The Mayflower Brings Bigger Cream Checks

Used with Writer's Permission.

Pomfret, Vermont,
April 18, 1922.

The Charles William Stores, Inc.
Dear Sirs:

I like the Mayflower Separator better than any other make and it gets almost double the amount of cream out of the same amount of milk and a better test. I remain your friend.

Mrs. Elizabeth Thacher.

Warriors Mark, Pa.
March 13, 1922.

The Charles William Stores, Inc.
Dear Sirs:

I received the Mayflower Cream Separator. Everything was O. K. It works like a charm. The oiling system is ideal; also the speed bell is a great convenience. If it continues to run as smooth and exact and separating so easily, I can say I have never seen any machine its equal. We are very much pleased with it.

D. G. Kyper.

Littleton, N. H.
May 17, 1922.

The Charles William Stores, Inc.
Dear Sirs:

I can never say too much about the Mayflower Separator; for it turns easy, gets all the cream and is easy to wash and handle in every way. I consider it a perfect separator.

Yours truly,
T. J. Mathew.

Auburn, Pa.
April 18, 1922.

The Charles William Stores, Inc.
Dear Sirs:

I find the Mayflower Separator splendid and am satisfied in every way. I would not part with it. It certainly is paying for itself.

Yours truly,
Paul Guris.

Let Us Ship You a Separator To-Day—On Trial

Whether your dairy needs call for the Bench Model Separator or our big 900-pound skimmer, you get the benefit of the thirty-day trial period. It makes no difference whether you intend to pay cash, or buy on the easy payment plan, the responsibility of completely satisfying you rests entirely with us for thirty full days. During this time we want you to test the Mayflower Separator for every claim stated on these pages. Put it to work on your farm; skim all of your milk with it. Watch the operation of the different features and conveniences; the Bell Speed Indicator, the Automatic Oiling System and Cream Screw Adjustment. Compare its smooth, easy operation; the ease with which it can be kept perfectly clean; and above all, its close skimming results with your neighbors' separators. Within a month's time if the Mayflower doesn't demonstrate to you that it will soon pay for itself, bringing in handsome profits, we agree to return any money you have paid and transportation charges both ways. If you decide to keep the separator, you have an entire year to pay—or if you pay cash, you get the benefit of still lower prices. Use coupon only if you buy on Easy Payment Plan.

$2.00 and This Coupon Brings You Any Size Mayflower Separator

The Charles William Stores, Inc., New York City. Date....., 1922.

Gentlemen:—Enclosed please find $2.00, as first payment for Mayflower Cream Separator No..... It is understood that I am allowed to try this separator for 30 days after its arrival at my shipping point. If at the end of that time I am not thoroughly satisfied, you will accept the return of this machine, and upon receipt of it you will return me this first payment and any shipping charges paid by me. If at the end of the 30 days' trial period I decide to keep the separator, I will make a second payment of $....., and will make further payments of $..... each month for the ten succeeding months. It is agreed, however, that I am to have the privilege of paying the balance in full at any time, and to receive a cash discount of 5 per cent for payments of any unpaid balance not yet due. It is also agreed that no interest is to be charged on any payments if made when due. In case of any dissatisfaction, I agree to hold the machine until I have written you in detail and given you an opportunity to adjust any trouble to my satisfaction. The title and ownership of the separator will remain with you until it is paid for in full.

Name.....Post Office.....

R. D. or.

Shipping Point.....Street No.....State.....

CHARLES WILLIAM STORES
New York City

Customer Pays Delivery Charges on Every Article on This

Maynard Dependable Farm Engines

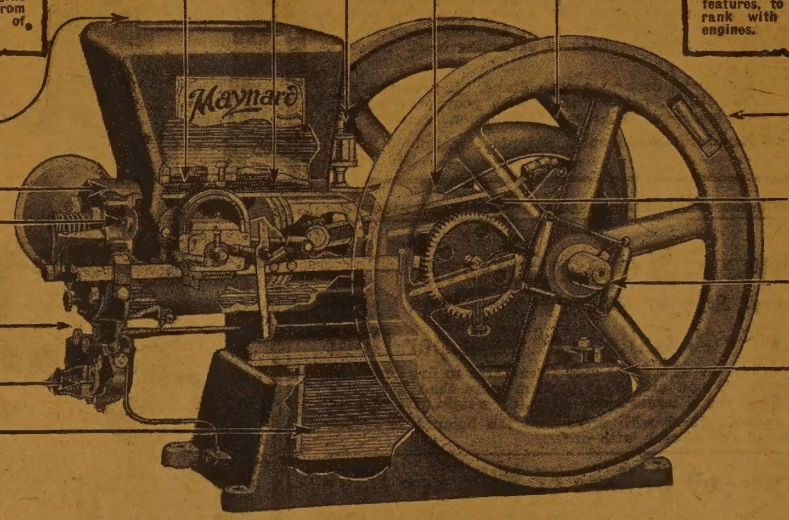
Shipments

Maynard Engines Now Shipped from New York or Factory in Michigan.

Maynard Engines and Pump Jacks are generally shipped from warehouse in New York City. However, we are also able to ship F. O. B. from factory in Michigan if desired. Send us your order in the usual way, but specify if you want merchandise shipped from Michigan. Otherwise, we will ship from New York City. All Engine shipments are routed promptly from factory or warehouse upon receipt of your order.

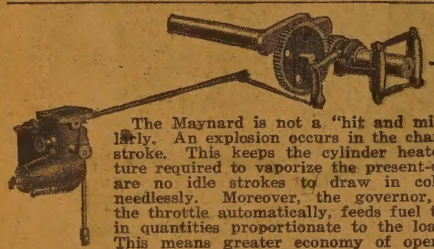
Improvements

Not radical changes in design—but little improvements here and there to make the good Maynard a better engine. Note the new Webster Tri-Polar Magneto on the 1¾ H. P. engine and the 4-way wrench that handles EVERY bolt and nut; the starting handles in the flywheels of the 3 and 5 H. P. engines; the drain cock below the cylinder to expedite draining; and the new step joint piston rings that can be replaced without filing. Little improvements, these—but big enough, with other high grade features, to keep the Maynard in the front rank with efficient and up-to-date farm engines.



Principles That Make the Maynard the Ideal Farm Engine

THE MAYNARD is essentially a farm engine. Its very design and every improvement is based on the power needs of the farmer—not more expensive, but more economical—not larger and heavier, but smaller, stronger, and more compact—not more complicated, but greatly simplified. We realized long ago that there was a necessity for a less expensive engine, a simpler engine, a more economical engine for the farmer—and these points have been well borne out in the design and construction of the Maynard. Read over these features—features that have made the Maynard an ideal engine for use on your farm.



Throttling Governor —*The Maynard Engine Fires Regularly*

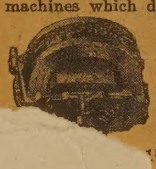
The Maynard is not a "hit and miss" engine. It fires regularly. An explosion occurs in the chamber at every compression stroke. This keeps the cylinder heated to a uniform temperature required to vaporize the present-day low grade fuel. There are no idle strokes to draw in cold air and consume fuel needlessly. Moreover, the governor, by opening and closing the throttle automatically, feeds fuel to the combustion chamber in quantities proportionate to the load the engine is carrying. This means greater economy of operation.

Carburetor—*Use Gasoline or Kerosene*

Use the fuel that is most economical for you. With the Maynard you can get as much power from a gallon of kerosene as a gallon of gasoline. And the Maynard is not a gasoline engine with a kerosene "adjustment." The carburetor is scientifically designed to make perfect gas from either gasoline or kerosene. Another feature of the throttle-governed Maynard is the fact that it mixes water with the fuel before burning. You have undoubtedly noticed that an automobile engine will run smoother on a rainy day or in the morning when the air is damp than it does on dry days? This is due to the mixture of water with the fuel which produces better combustion. The Maynard Water valve insures that the correct amount of moisture is taken into the cylinder, where it is converted into steam. This steam also destroys the soot and carbon that may form in the cylinder.

Speed Regulator—*Adjust the Speed to Your Power Requirements*

The speed of the Maynard is regulated by a thumb-screw which cannot jar out of position and which can be set for any speed desired, within the range of the engine. This is a great convenience, especially when operating machines which demand a certain fixed speed.



Webster Magneto—*Start Easy In Any Weather*

The Webster Magneto is so well known on the farm that it hardly needs any explanation. It starts the engine in any weather, rain or shine—winter or summer. It is weatherproof, oilproof and waterproof. It has no rotating parts to wear out. You don't need batteries. All Maynard Engines are equipped with Webster 1¾ H. P. Maynard is equipped with the Tri-Polar Webster improvement for this size, or with batteries if desired.

Connecting Rod—*Heat Treated*

The bearings of the connecting rod are subjected to very hard usage and are bound to require replacement. Maynard Engines are equipped with renewable bearings in the crank end. Connecting rod bolts are heat treated, which almost entirely eliminates breakage. Bronze renewable bushings are used in the piston end of the rod.

Valve-in-Head—*Reduces Number of Parts—Simpler Head Assembly*

Engine designers agree that the valve-in-head construction, as employed in the Maynard, is the most satisfactory and practical. It reduces the number of parts and makes a much simpler head assembly. The valves are extra large so the cylinder can clean itself when operating at high speed. The engine can then develop to full capacity.

Pistons—*With New Step Joint Rings—Can Be Replaced Without Filing*

Maynard Engines are all equipped with fine gray iron pistons, accurately finished to maintain a higher compression needed for burning gasoline. Step Joint Rings are used which are separately cast and turned. This makes for greater uniformity and enables you to replace new rings readily, when needed, without filing.

Power—*Maynard Engines Invariably Develop 20 Per Cent Over Rated H. P.*

Maynard Engines are conservatively rated. This is proven in the standard "brake test" given before leaving factory in which 20 per cent excess power is invariably developed. The Maynard has the steady, dependable power needed on every farm. Give them plenty of oil, fuel and water and they will start off in any weather. The 1¾, 3 and 5 H. P. engines are all equipped with starting handles located in the flywheel, and a starting crank is furnished with the 7 H. P. engine. They can very often be started by turning the flywheel back against the compression and tripping the magneto.

30-Day Trial. Test the Maynard Yourself on Trial

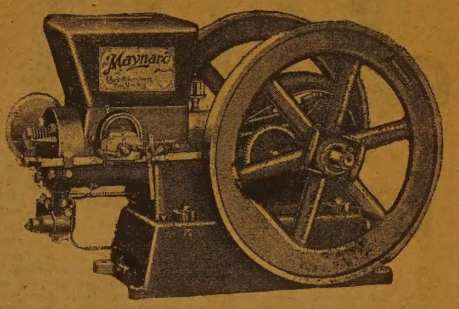
The features outlined above are but the distinguishing features of the Maynard Engine. We therefore sell this engine on a fair thirty day trial basis. Order today the size best adapted for your farm, sending the full price—and then test it to your ENTIRE satisfaction for thirty days. Test it for power, simplicity, dependability, fuel economy and especially for its ease in starting. Put it to work on the hardest jobs that you have. See how easily it handles them. If for any reason you are not thoroughly satisfied with it, just write us and we will give you instruction for returning it, paying full purchase price, and transportation charges.

New Improved Models at Lower Cost!

Maynard 3 H. P. Engine

(Features Outlined on Page 6)

Type "K" Kerosen-Gasoline Four-Cycle Horizontal. Bore, 4½ Inches. Stroke, 6 Inches. Normal Speed, 450 R. P. M. Maximum, 550 R. P. M. Diameter of Flywheels, 21 Inches. Weight of Each Flywheel, 81 Pounds. Diameter of Crank Shaft, 1 9/16 Inches. Capacity of Water Hopper, 3½ Gallons. Capacity of Fuel Tank, 3½ Gallons. Pulley, 8-Inch Diameter, 6-Inch Face. Floor Space Required, 36x27 Inches.



What This Engine Will Do

The 3 H. P. Maynard will run a—

6-Inch Feed Grinder Saw Frame (with 24-Inch Blade)

10 or 12-Inch Feed Cutter One or Two Hole Sheller

5-Inch Cane Mill

It can also be used for light work, such as pumping, running cream separator, washing machine and similar work. When used for light work, it will consume no more fuel than a lighter engine, and it is always ready for heavier work if required. Mounted on a hand truck it is easily moved about.

A Good General Purpose Engine

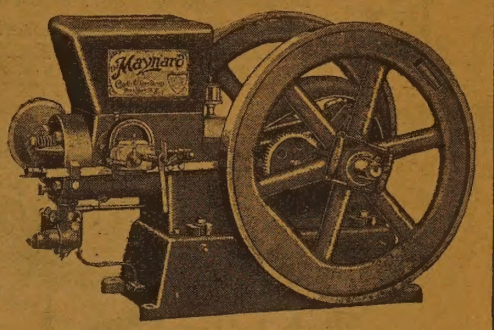
The 3 H. P. Maynard is intended for the farm or shop where the work is too heavy for the 1¾ H. P. size. It has all the features outlined for the Maynard on the opposite page, including a starting handle located in the flywheel for easy starting. This engine will handle all the light jobs about the farm in excellent fashion, and can be belted to a line shaft to run several machines at the same time. If you expect your future requirements to be heavier, however, we would advise that you buy the 5 H. P. engine, as it is most commonly used for farm work. For general outdoor work, excellent results can be obtained by mounting this engine on a hand truck. (See page 8.) Shipped from New York City or factory in Michigan. State WHICH.

19K1162C 3 H. P. Maynard Engine with Webster Magneto. Shipping weight, 480 pounds.
Price..... **$81.85**

Maynard 5 H. P. Engine

(Features Outlined on Page 6)

Type "K" Kerosene-Gasoline Four-Cycle Horizontal. Bore, 4¾ Inches. Stroke, 8 Inches. Diameter of Flywheels, 26 Inches. Diameter of Crank Shaft, 1¾ Inches. Floor Space Required, 44x30 Inches. Capacity of Fuel Tank, 6 Gallons. Normal Speed, 430 R. P. M. Maximum Speed, 500 R. P. M. Weight of Each Flywheel, 142 Pounds. Capacity of Water Hopper, 6 Gallons. Pulley, 12-Inch Diameter. Face, 6 Inches.



What This Engine Will Do

The 5 H. P. Engine will run a—

26-28 Cut-off Saw.

16-Inch Rip Saw.

8-Inch Feed Grinder.

2-Hole Corn Sheller.

8-Inch Cane Mill.

16-Inch Feed Cutter.

13-Inch Ensilage Cutter with Carrier.

Belted to a line shaft it will run numerous machines at one time, besides doing all the lighter jobs that the 3 H. P. will do.

The Ideal Farm Engine

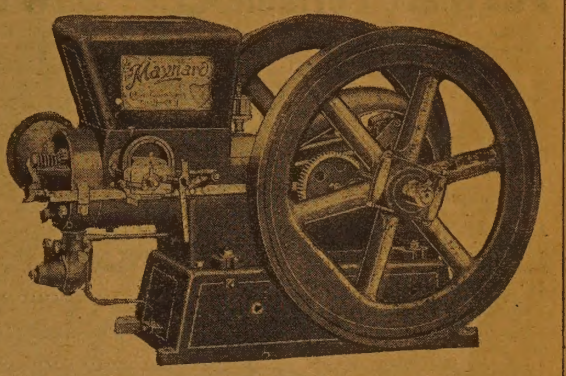
We consider the 5 H. P. to be the best all around farm engine. There are probably more 5 H. P. engines on the farm than any other size. This engine will do all but the heaviest jobs on the farm in the most satisfactory way. This engine can also be used mounted on a truck or portable saw rig. (See page 8.) If you have a large silo to fill, or other heavier work, our 7 H. P. engine will be the most economical engine for you, as it runs just as cheaply on lighter work as the 5 H. P. Shipped from New York City or factory in Michigan. State WHICH.

19K1163C 5 H. P. Maynard Engine, Webster Magneto. Shipping weight, 725 pounds.
Price..... **$113.40**

Maynard 7 H. P. Engine

(Features Outlined on Page 6)

Type "K" Kerosene-Gasoline, Four Cycle Horizontal. Bore, 5½ Inches. Stroke, 10 Inches. Normal Speed, 370 R. P. M. Maximum Speed, 450 R. P. M. Diameter of Flywheel, 36 Inches. Weight of Flywheel, 250 Pounds. Diameter of Crank Shaft, 2 Inches. Capacity of Water Hopper, 12 Gallons. Capacity of Fuel Tank, 8½ Gallons. Pulley, 14 In. Diameter. Face, 8 Ins. Floor Space Required, 54x36 Inches.



What This Engine Will Do

The 7 H. P. Maynard Engine will run a—

10-Inch Feed Mill.

16-Inch Feed Cutter or Silo.

Filler with Carrier.

16-Inch Stone Burr Mill.

12-Inch Ensilage Cutter with Blower.

30-Inch Cut-off Saw.

16-Inch Rip Saw.

14x18-Inch Power Hay Press.

4-Hole Corn Sheller.

Small Threshing Machine.

Small Saw Mill.

Large Centrifugal Pump for Irrigation.

A Heavy Duty Engine

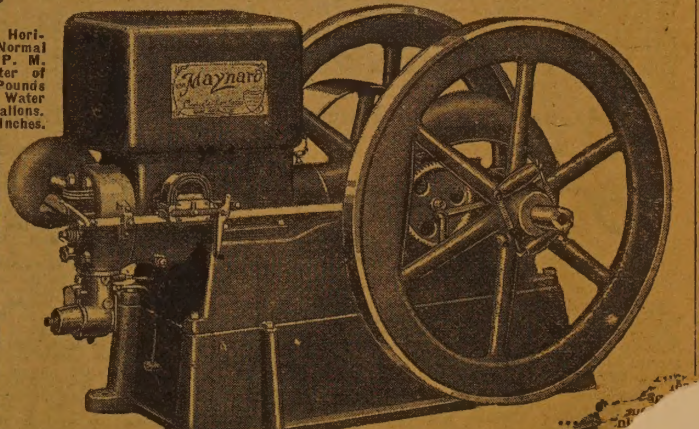
The 7 H. P. Maynard is the practical size to use for running grinding mills and large sawing outfits. It is heavier than most engines of this size and has extra large bearings and a large water jacket. When operated under full load, this engine will use slightly less than 7 gallons of kerosene or gasoline in 10 hours. When the work does not constantly require the full power of the engine, the amount of fuel used is, of course, proportionately less. If you want to earn money sawing wood or grinding feed for your neighbors, this is the size to order. This engine is used on our 7 H. P. Portable and Saw Rigs. Shipped from New York City or factory in Michigan. State WHICH.

19K1164C 7 H. P. Maynard Engine with Webster Magneto. Shpg. wt., 1,265 pounds.
Price..... **$167.80**

Maynard 12 H. P. Engine

(Features Outlined on Page 6)

Type "K" Giant Kerosene-Gasoline. Four-Cycle Horizontal. Bore, 6¾ Inches. Stroke, 12 Inches. Normal Speed, 330 R. P. M. Maximum Speed, 375 R. P. M. Diameter of Crank Shaft, 2½ Inches. Diameter of Flywheels, 42 Inches. Weight of Flywheels, 380 Pounds each. Drive Pulley, 22x9 Inches. Capacity Water Hopper, 17½ Gallons. Capacity Fuel Tank, 11 Gallons. Floor Space, 69x43 Inches. Foundation, 55x22 Inches.



What This Engine Will Do

The 12 H. P. Maynard Engine will run a—

38-Inch Cut-off Saw.

24-26-Inch Rip Saw.

14-Inch Ensilage Cutter with Carrier, with Blower —or 20-Inch Feed Cutter with Carrier.

16-20-Inch Burr Mill.

Threshing Machine with 14x30-Inch Cylinders.

Threshing Machine with 22x36-Inch Cylinders.

Large Saw Mill.

Large Cane Mill.

Large Feed or Cider Mill.

For Filling Large Silos.

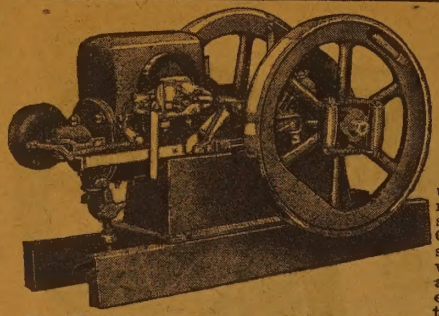
A Giant for Power

This engine is often bought on the Group Purchase plan. A size like this or a 7 H. P. engine oftentimes so benefits the entire community that many sections find it a profitable investment to get together and buy one on a partnership basis.

This engine, like all Maynard engines, is guaranteed to develop 20 per cent more than its rated power. It is built of extra heavy parts throughout, as you will notice by referring to the different weights and sizes in the accompanying specifications. If you have been thinking of buying a 10 H. P. engine, it would be advisable to compare the price with this more powerful machine first. You will undoubtedly find in almost every instance that our price is as low—or even lower—than the average 10 H. P. engine, and the advantages are infinitely greater. This engine is used on our 12 H. P. portable and saw rigs. Shipped from New York City or from factory in Michigan. State WHICH.

19K1165C 12-H. P. Kerosene-Gasoline Engine, complete with Webster Magneto. Shpg. wt., 2,200 lbs. Price..... **$266.90**

Maynard 1¾ H.P. Gasoline Engine



Specifications

Type, Gasoline only. Four-Cycle. Normal Speed, 500 R. P. M. Diameter of Crank Shaft, 1¼ inches. Diameter of Pulley, 4 inches. Face, 4 inches. Maximum Speed, 600 R. P. M. Capacity of Water Hopper, 1½ gallons. Diameter of Flywheels, 16 inches. Capacity of Fuel Tank, 1 gallon. Bore, 3½ inches. Stroke, 5 inches. Weight of each Flywheel, 34 pounds. Length of Piston, 4 inches. Shipping weight, 225 pounds.

New Improved Type

Our new 1¾ H. P. Maynard Engine is now being equipped with the new, up-to-date Webster Tri-Polar Oscillators, an improvement over the old style magneto. In addition this little engine is now furnished with a four way socket wrench, which enables you to handle any bolt or nut on the engine. Other improvements have been made, such as renewable bearings on crank shaft end of connecting rod; step joint ring pistons, which can be replaced without filing, and other similar improvements that tone up and improve an already good, serviceable engine. The farmer looking for a good small engine will have to look a long time before he can find a better value than this new, improved Maynard.

The 1¾ H. P. Maynard is in design and construction equally as high grade as the larger Maynard Engines. It is built for the use of gasoline only on account of the very small amount of fuel used to run it, and differs from the other size only in that the cylinder head is not water jacketed but air cooled instead. In all other important respects, however, the design is the same. It furnishes the most economical means of pumping water for all purposes. It will handle a 2½-inch cylinder in a well of ordinary depth with ease. The illustration shows the engine equipped with the new Webster Magneto. We, however, make the buying of this magneto optional on this little engine, as some buyers prefer to use batteries on a small engine, particularly when the engine is to be used for light work and not run as steadily as heavy work engines.

Being light, it is easy to move around, but its usefulness will be greatly increased by using the hand truck shown below and mounting the engine on it. Shipped from New York City or factory in Michigan. State WHICH.

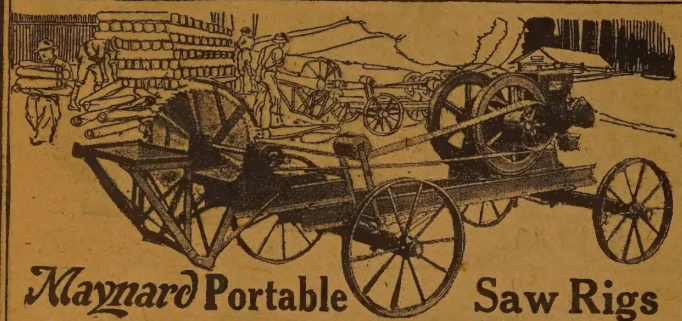
19 K 1160C Maynard 1¾-H. P. Gasoline Engine with Batteries. Price..... **$47.65**

19 K 1161C Same Engine, Webster Magneto. Price..... **$48.95**

19 K 1255H Hand Truck for 1¾-H. P. Engine. Shipping weight, 50 pounds. Price..... **4.60**

Can You Afford to Be Without the 1¾ H.P. Maynard Engine?

It will run the—
separator
churn
washing machine
grindstone
fanning mill
small feed cutter
saw frame
concrete mixer
pump jack
small machine shop



Maynard Portable Saw Rigs

These saw rigs are furnished in 5, 7 or 12 H. P. sizes ready to set up for sawing wood. They consist of our Maynard Gasoline-Kerosene Engine with Webster Magneto, mounted on a heavy, all steel truck with saw blade, belt tightener, saw frame and belt complete. Anyone who expects to do job work or has considerable wood to saw at home should not be without one of these excellent rigs. It can be moved easily from one job to another with a team and when ready there is no belt to line up, nothing to load or unload—in fact, nothing to do but block the wheels, start the engine and get busy. Rig can be converted into a first class portable engine by removing saw attachment. These rigs will take saws up to 30 inches in diameter. If larger saws are wanted on the 5 or 7 H. P. rigs, we recommend using a flywheel. Shipped K. D. from New York.

Maynard 5-H. P. Saw Rig Outfit. All steel truck has 5-inch main channels 7 feet 6 inches long; 3-inch channel axles with 1½-inch spindles; 28-inch front and 30-inch rear wheels with 3-inch grooved tires, 26-inch saw, belt tightener, saw frame and 5-inch belt. Shipping weight, complete, with tongue, about 1,735 pounds. **19 K 1209C** Price, complete..... **$193.80**

Maynard 7-H. P. Saw Rig Outfit. All steel truck has 5-inch main channels 7 feet 6 inches long; 3-inch channel axles; steel wheels, 28-inch front and 30-inch rear with 3-inch grooved tires; 28-inch saw, belt tightener, saw frame, and 5-inch belt. Shpg. wt., complete with tongue, about 2,300 lbs.
19 K 1210C Price, complete..... **$248.90**

Maynard 12-H. P. Saw Rig Outfit. Has 6-in. channel 8 ft. long; 4 in. channel axles with 1¾-inch spindles; 28-inch front, 30-inch rear steel wheels with 4-inch grooved tires; 28-inch saw, belt tightener, saw frame, and 5-inch belt. Shipping weight, complete with tongue, 3,500 pounds.
19 K 1211C Price, complete..... **$359.85**

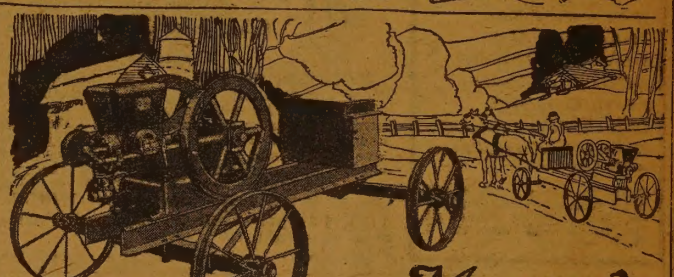
19 K 1257C 5 or 7-H. P. Portable Saw Rig Truck only. Shipping weight, 520 lbs. Price..... **$43.75**

19 K 1258C 12-H. P. Saw Rig Truck only. Weight, 700 lbs. Price..... **$53.85**

19 K 1216C Saw Frame only for 5, 7 or 12-H. P. Portable Saw Rigs. Shipping weight, 60 pounds. Price..... **$20.95**

19 K 1289C Belt Tightener. Shpg. wt., 30 lbs. Each..... **$5.15**

Extra for balance wheel for any of above. Shipping weight, 30 lbs..... **7.50**
Extra for gear brake. Shipping weight, 50 pounds..... **10.15**
Extra for combination tool box and seat. Shipping weight, 20 lbs..... **4.85**



Furnished Complete or Truck Separately

Maynard Portable Engines

It would be hard to beat one of our Maynard Portable Engines as a time saver. It will hustle through hard jobs with a speed that will make you smile. And time saved means more work accomplished and more money made. That's why a Maynard Portable Engine soon proves a mighty profitable investment. If you already own a Maynard Engine why not convert it into a portable outfit with one of our ALL STEEL trucks? You will then have a first class power plant on wheels.

Maynard 5-H. P. Portable Engine and Truck. 5-inch main channels, 7 feet 6 inches long; 3-inch channel axles with 1½-inch spindles; 26-inch front, 28-inch rear steel wheels; 3-inch grooved tires. Complete with tongue. Shipping weight, about 1,275 pounds.
19 K 1240C Price, complete..... **$154.90**

Maynard 7-H. P. Portable Engine. Truck is same as 5-H. P. Shipping weight, complete with tongue, 1,735 pounds.
19 K 1241C Price..... **$198.90**

Maynard 12-H. P. Portable Engine and Truck. 6-inch main channels, 8 feet long; 4-inch channel axles with 1¾-inch spindles; wheels, 28-inch front, 30-inch rear; 4-inch grooved tires. Shipping weight, complete with tongue, 3,000 pounds.
19 K 1242C Price, complete..... **$319.80**

19 K 1257C 5 or 7-H. P. Portable Engine Truck only. Shipping weight, 520 pounds. Price, each..... **$43.75**

19 K 1258C 12-H. P. Portable Engine Truck only. Shipping weight, 700 pounds. Price, each..... **$53.85**

Extra for gear brake. Shipping weight, 50 pounds..... **10.15**
Extra for combination tool box and seat. Shipping weight, 20 lbs..... **4.85**

Maynard Engine Trucks

For Engine weighing up to 500 pounds. Steel handle truck has wood cross-beams, each 1⅝x3½x16¼ inches. Engine base or box bolted to beams acts as frame. Wheels, 9 inches diameter by 1¾-inch face. Tubular axles, 1-inch diameter; length, 23 inches. Shipping weight, 50 pounds.
19 K 1255H Price, each..... **$4.60**

...uck for engines up to 1,000 pounds. Length, 5 ...outside of beams, 22 inches. Diameter of front ...es. Diameter rear wheels, 14 inches. Width ...es. Shpg. wt., 118 lbs.
...Price, each..... **$9.25**

Rules for Determining the Size and Speed of Pulleys

To find the size of pulley on line shaft to give a certain line shaft speed (R. P. M.), multiply the diameter of the pulley in inches on the engine by the R. P. M. of the engine and divide this product by the R. P. M. of the line shaft. This will give diameter in inches of pulley needed.

To find the size of pulley on line shaft to take the belt leading to the machine, multiply the diameter of the pulley on the machine by its revolutions per minute and divide by the number of R. P. M. of the line shaft.

To find the R. P. M. of the countershaft, multiply the R. P. M. of the engine by the diameter revolutions per minute and divide by the number of revolutions per minute of the line shaft.

To find the length of the belt, add the diameter of the two pulleys together; divide the result by two, multiply the quotient by 3⅛; then add the product of twice the distance of the centers of the shaft and you have the required length of the belt.

Shaft Clutch Pulleys

The clutch pulley is a handy accessory on any engine. It permits the engine to run idle without shifting the belt. Designed for engine where the shaft extends beyond the flywheel a sufficient length to carry the belt pulley. These pulleys are standard and may be applied to any engine regardless of the length of shaft. Shipped from factory in Ohio. Special sizes upon application.

Number	Size, ins.	Shpg. wt., lbs.	Price
19 K 1265C	12x6x1 9/16	87	$16.85
19 K 1266C	12x6x1¾	87	16.95
19 K 1267C	12x6x2	87	17.05
19 K 1268C	14x6x1 9/16	103	18.90
19 K 1269C	14x6x1¾	97	18.95
19 K 1270C	14x6x2	97	19.05
19 K 1271C	16x6x1¾	103	19.35
19 K 1272C	16x8x2	103	19.45
19 K 1273C	16x8x2	110	20.45
19 K 1274C	18x6x2	103	20.35
19 K 1275C	20x6x2	110	20.80
19 K 1276C	20x8x2½	110	23.15
19 K 1277C	24x8x2½	139	26.30
19 K 1278C	28x8x2½	157	29.65

...stomer Pays Delivery Charges on Every Article on This Page

Buy a Power Outfit - Save Money

Four Jacks in One

A New Development in Pump Jacks

Here's a pump jack that will do all any other cast-geared jack will do and then outlast the other jack. A center drive jack with a new range of usefulness. It works in any position. May be placed on the floor, wall, ceiling, on a post or simply clamped to the pump standard, and it will work more smoothly than the ordinary double-geared jack.

Gear Reduction 5 to 1

Engines operating at a high rate of speed require jacks of 5 to 1 ratio. This ratio gives 85 strokes of the pump rod per minute when used with ordinary 1½ H. P. engine. The single gear and single pulley reduce the friction surfaces nearly one-half. Furnished with hard oil cups. Gears are wide faced and mesh perfectly, transmitting all power of engine. Lifting capacity (2-inch cylinder), 200-250 feet. Pitmans of hardwood.

Specifications

19 K 1184H Stroke, 5-7½-10; Pulley, 13 in.; Shafts, 1⅛-in. Shpg. wt., 85 lbs. Price..... **$6.46**

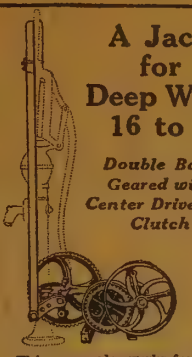
Note Ropes Attached to Clutch with Jack Used Overhead.

Used as Wall Jack. Three point Bearing Base Gives Firm Support.

Jack is easily connected to Force Pump.

A Jack for Deep Wells 16 to 1

Double Back Geared with Center Drive and Clutch

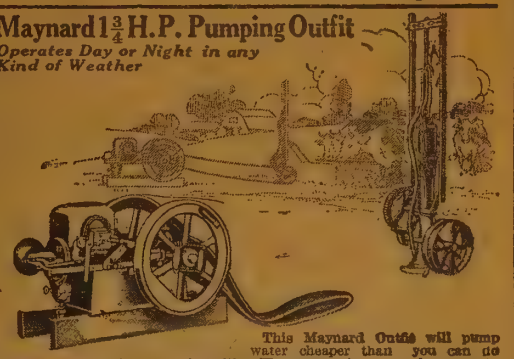


This pump also works from any position—on floor, wall or ceiling. But it is designed to work on deep wells up to 350 ft. It is just the jack for wells drilled in rock, or where water filters slowly, for slow action of pump rod prevents a vacuum in cylinder and jerky motion of pump. Back geared 16 to 1. Works equally well with engine or electric motor drive. Lifting capacity (2-in. cylinder), 250-350 ft. Stroke, 5-7½-10. Pitmans of hardwood. Pulley, 13 in. Shafts, 1⅛ in. Shpg. wt. 100 lbs.

19 K 1185H Price.. **$8.85**

Maynard 1¾ H.P. Pumping Outfit

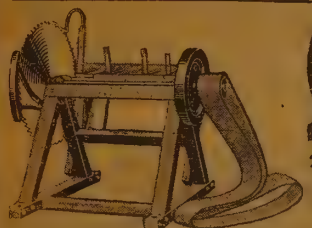
Operates Day or Night in any Kind of Weather



This Maynard Outfit will pump water cheaper than you can do it by hand or with the windmill. The engine has enough power to force water from thirty to fifty feet above the pump, if desired. As the engine is not heavy, it can also be belted to other light machinery about the farm. The pump jacks have one tight and one loose pulley. Size, 14x2. Speed, 160 R.P.M. (25-40 strokes per min.). The Maynard Pumping Outfit includes our regular Maynard 1¾ H. P. engine described on page 8.

19 K 1180C 1¾ H. P. Pumping Outfit complete with Pump Jack (this jack clamps to the pump. It can be used only on iron pumps with iron body above the platform. Used for wells up to 150 feet deep) and 12 ft. of 2-inch, 3-ply rubber belting. Shipping weight, 325 pounds..... **$55.95**

19 K 1181C 1¾ H. P. Pumping Outfit complete with Pump Jack (this jack has a heavy base which bolts to the pump platform. It can be used with any vertical or horizontal pump. It can also be attached to the wall or ceiling. Used for wells up to 150 feet deep. Pump jack with base, to be bolted to platform) and belting. Shipping weight, 340 pounds..... **$56.15**



The Favorite Saw Frame Outfit

Maynard 5 H. P. Sawing Outfit

Our most popular cordwood saw frame with 5 H. P. Maynard Engine. Saw frame is a tilting table of best hardwood with 70-lb. fly-wheel. Ripping table can be attached by removing yokes. For details of this saw, see page 10; 5 H. P. engine listed on page 7. A very serviceable medium-sized outfit at an unusually low price.

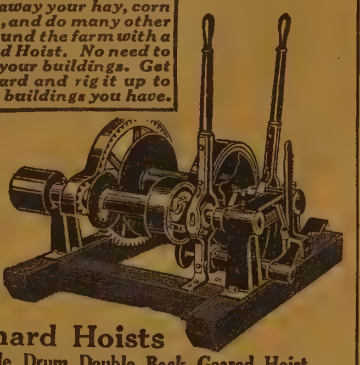
This outfit, as illustrated, consists of 19 K 1163C 5 H. P. Engine; 19 K 779D Saw Frame; 19 K 815B 26-inch saw blade, and 20 ft. of 4-in., 4-ply, stitched canvas belting. Shipped knocked down complete from New York City. Shipping weight, 1,060 pounds.

19 K 1226D Outfit complete. Price..... **$138.65**

19 K 1227D Above Outfit with engine truck. Shipping weight, 1,500 pounds. Price. **$179.95**

Save Time and Money

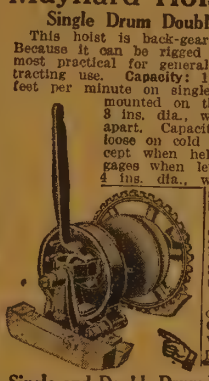
Store away your hay, corn or grain, and do many other jobs around the farm with a Maynard Hoist. No need to change your buildings. Get a Maynard and rig it up to suit the buildings you have.



Maynard Hoists

Single Drum Double Back Geared Hoist

This hoist is back-geared at a ratio of 4½ to 1. Because it can be rigged up in many ways, it is the most practical for general, all around farm and contracting use. **Capacity:** 1,000 to 1,500 pounds at 100 feet per minute on single rope. **Drums:** Small drum mounted on the pulley or gear shaft. Is 8 ins. dia., with 7½ ins. flanges 9½ ins. apart. Capacity, 100 ft. ½-in. rope. Hung loose on cold steel shaft 1½ ins. dia., except when held with clutch, which disengages when lever is released. **Main Drum** 4 ins. dia., with 14½ in. flanges 10 ins. apart. Capacity, 150 ft. ¾-in. rope. Hangs loose on 1¾-in. cold rolled steel shaft, except when in contact with 20 H. P. clutch. **Drive:** 14x8 in. pulley, regular. **Skids:** 32x37 ins., made of 4x4 in. timbers.



19 K 1292F Single Drum. double back, geared Hoist. Capacity, 3,500 lbs. Shpg. wt., 650 lbs. Price..... **$80.00**

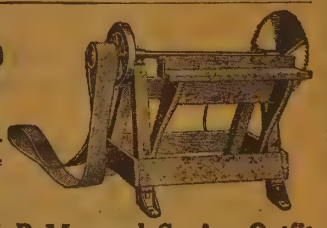
Single and Double Drum Hoists with Sprocket Wheel

This style hoist is mounted on wood frame bolted with three rods. Composed of few parts very strongly built, enabling it to handle its guarantee load easily. Is equipped with ratchet pawl and powerful foot-brake. Furnished with a coil spring, which disengages clutch unless held in friction by the lever. A 5 H. P. Engine will be the right power for general use with this hoist. When ordering be sure to give **REVOLUTIONS** per minute of your engine; also the **DIAMETER** of crank shaft and the **SIZE** of keyway.

Capacity—2,000 pounds. **Drum**—4-inch diameter and 14 inches between flanges. Flanges 18 inches in diameter. Rope capacity of 800 feet of ½-inch cable. **Drive**—Gear driven with ratio of 6 to 1 from two Sprocket Wheels. **Dimensions**—18 inches by 32 inches wide, 24 inches high. **Skids**—32 inches wide and 84 inches long. Long enough for any style engine. **Weight**—800 pounds, complete on skids.

19 K 1290C Single Drum Hoist, with Sprocket Wheel for Engine and Hoist. Shipping weight, 600 pounds. Price..... **$87.65**

19 K 1291F Double Drum Hoist, same capacity on each drum, complete with Sprocket wheel for Engine and Hoist. Shipping weight, 900 pounds..... **$136.70**



A Big Labor Saver on the Small Farm

1¾ or 3 H. P. Maynard Sawing Outfit

This outfit is furnished with either our 1¾ H. P. Gasoline engine, described on page 8, or with the 3 H. P. Kerosene-Gasoline engine described on page 7. It will cut poles and cordwood up to 10 inches in diameter. Frame will carry any size saw blade up to 22 inches.

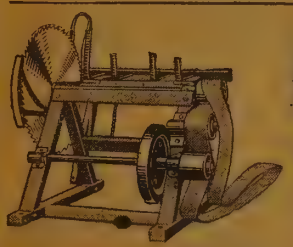
The 1¾ H. P. outfit consists of our 19 K 1161C 1¾ H. P. Gasoline Engine, with magneto; our 19 K 783D Junior Tilting Table Saw Frame; 19 K 815B 18-in. saw blade, and 20 ft. of 4-in., 4-ply stitched canvas belting. Shipped knocked down complete from New York City. Shipping weight, 425 pounds.

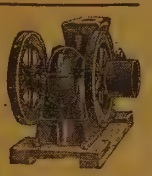
19 K 1223D Outfit complete, 1¾ H. P. Price..... **$63.65**

19 K 1230D 1¾ H. P. with Engine Truck. Shpg. wt., 475 lbs. Price, complete..... **$68.45**

19 K 1224D Outfit with 3 H. P. Engine, and 22-in. saw blade. Shipping weight, 690 lbs. Price... **$97.85**

19 K 1225D 3 H. P. outfit with Engine Truck. Shpg. wt., 790 pounds. Price..... **$106.43**





A Money Maker for Job Work

Maynard 7 H. P. Sawing Outfit

This 7 H. P. Sawing Outfit is large enough to saw heavy cordwood and long poles. It is a first-class outfit in every respect. The tilting table pole saw frame is fully described on page 10. For complete details of 7 H. P. engine see page 7. If desired the parts may be purchased separately.

This outfit, as illustrated, consists of 19 K 1164C 7 H. P. Engine; 19 K 776D Saw Frame; 19 K 815B 30-inch Saw Blade, and 20 feet of 5-inch, 4-ply stitched canvas belting. Shipped knocked down complete from New York City. Shipping weight, 1,700 pounds.

19 K 1221D Outfit complete. Price..... **$198.45**

19 K 1222D Above Outfit with engine truck. Shpg. wt., 2,574 lbs. Price..... **$243.85**

A Money Making Outfit for Fall Work

Maynard 5 H. P. Grinding Outfit

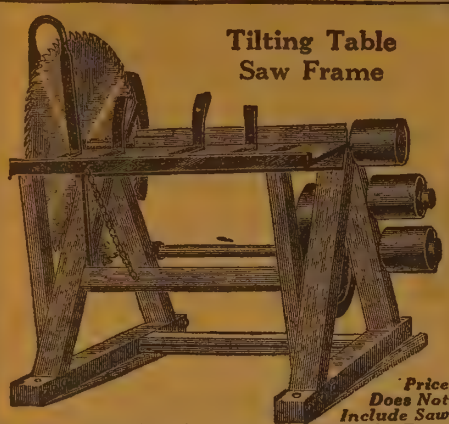
We furnish this Grinding Outfit with our 5 H. P. Kerosene-Gasoline Engine described on page 7 and feed grinder described on page 11. It will grind corn on the cob, as well as wheat, oats and other small grains. It will also grind cornmeal and whole wheat flour for your table use by setting the mill to grind fine and then sifting the meal through a hand sieve. This outfit consists of our 19 K 1163C 5 H. P. Kerosene-Gasoline Engine; 19 K 420D 8-in. Feed Mill, with 2 sets of burrs, and 20 ft. of 5-in., 4-ply stitched canvas belting. Shipped knocked down complete from New York City. Shipping weight, 1,150 pounds.

19 K 1230C Outfit complete. Price.....

19 K 1231C Above Outfit with Engine... ping weight, 1,725 pounds. Price...

Richland Saw Frames

Tilting Table Saw Frame



Price Does Not Include Saw

Can be used either for pole wood or cordwood. Frame is heavy, dry, seasoned hardwood, thoroughly bolted and braced, making it extra strong and durable. Mandrel 1 7/16 inches, cold rolled steel, running in long, babbitted bearings. The table is hung on heavy hinges with long easy bearings. The lower shaft carrying balance wheel extends entirely across the frame. Balance wheel, 70 pounds. Any size blade from 20 to 30 inches can be used. Shipping weight, 350 pounds. Shipped from New York warehouse. **Price does not include saw.**

19 K 776D Right Hand Frame. Price..... **$25.90**
19 K 777D Left Hand Frame. Price..... **$25.95**

Tilting Table Wagon Rack Saw Attachment

Right or Left Hand

Tilting Table Wagon Attachment. This attachment bolts to the sills of any gasoline engine, truck or wagon rack. It consists of a mandrel set with pulley, 70-pound balance wheel, saw guard and tilting table. Weight, 250 pounds. **Price does not include saw.** Shipped from New York City.

19 K 775D Right Hand Frame. Price..... **$17.95**
19 K 788D Left Hand Frame. Price..... **$18.15**

Ripping Tables

This table is suitable for doing general ripping as well as sawing shingles. Fitted with safety stop for stopping the block holders and will cut shingles to any desired thickness. Block holders are not required in ordinary ripping work. Will fit all saw frames made to take ripping tables, and will swing rip saws up to 26 inches with 1⅝-inch holes. Shipped from New York City. Shipping weight, 60 pounds.

19 K 2728D Table without block holders.... **$5.15**
19 K 2729D Shingle Table with 2 block holders. Shipping weight, 65 pounds..... **$6.65**

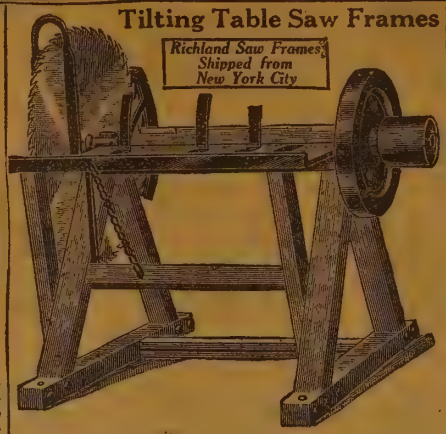
Circular Cordwood Saw Blades

19 K 815B Circular Cordwood Saws to fit saw frames listed on this page. 18 to 24-inch blades require 3 to 5 H. P. engine; 26 to 30-inch blades, 7 H. P. or larger. Shipped only with saw frames selected from this page.

Dia., Ins.	Shpg. Wt., Lbs.	Hole Size, Ins.	Price
18	10	1⅜ or 1¼	$2.22
20	11	1⅜ or 1¼	2.66
22	14	1⅜ or 1¼	3.11
24	20	1¼	3.76
26	24	1¼	4.39
28	26	1¼	5.07
30	30	1¼	5.79

Tilting Table Saw Frames

Richland Saw Frames Shipped from New York City



Can be used with any power using belt. This frame is made of hardwood, thoroughly seasoned, and strongly bolted and braced. All braces are made of wrought iron. Frame is securely held by anchor rods running from the boxes to the base timbers. The table is hung on heavy hinges with large bearings. A cable chain holds table in place when back from the saw. Shaft is 1 7/16-inch cold rolled steel, turned up with 1⅜-inch arbor, and a 5-inch arbor flange. Boxes are fitted with babbitted bearings. We furnish 70-pound balance wheel with this frame, insuring fast sawing and smooth running in the heaviest kind of work; also 6-inch pulley with 6-inch face. Saw guards are adjustable to any size blade from 20 to 30 inches. Shipped knocked down. **Price does not include saw.** Shpg. wt., 260 lbs. Shipped from New York City.

19 K 779D Right Hand Frame. Price.. **$18.65**
19 K 780D Left Hand Frame. Price..... **$18.80**

Tilting Table Saw Frames

With Pole Extensions

Price Does Not Include Saw

This frame is exactly the same as 19 K 779D, but has an extra extension to attach, which makes it suitable for sawing pole wood. Shipped from New York warehouse. Shipping weight, 280 pounds.

19 K 781D Tilting Table Frame with Pole Extension. Right Hand. Price..... **$19.95**
19 K 782D Tilting Table Frame with Pole Extension. Left Hand. Price..... **$19.80**

Mandrel Sets

We furnish mandrel sets complete, consisting of 1½-in. shaft 49 inches long with 1¾-in. arbor and arbor flanges; babbitted boxes; 56-lb. balance wheel and 6x6-in. pulley for those who desire to build their own saw frames. Weight, about 116 lbs. Shipped from New York City.

19 K 2726D Mandrel Set. Rt. Hand. Price.. **$12.40**
19 K 2727D Mandrel Set. Left Hand. Price .. **$12.55**

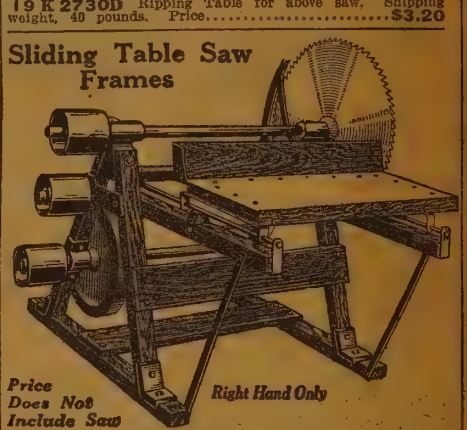
Junior Tilting Table Saw Frames

Price Does Not Include Saw — *Right Hand Only*

A machine built in the same general style as our heavier machines, but lighter in weight and designed for lighter work. It will carry saw blades up to 22 inches and requires from 1 to 3 horse power. Will cut wood up to 8 or 10 inches in diameter. A good, solid, well made little machine, just the thing for use with small gasoline engine and is especially adapted for attaching our shingle and ripping table. **Mandrel**—1 5/16 inches in diameter, 41 inches long, and fitted for saw with 1¼-inch hole. Balance wheel, 35 lbs. **Pulley** is 5 ins. in diameter with 5-in. face. Engine required, 1½ to 3 H. P. Shpg. wt., 145 pounds. Shipped from New York City.

19 K 783D Frame without Blade. Price.. **$10.40**
19 K 2730D Ripping Table for above saw. Shipping weight, 40 pounds. Price..... **$3.20**

Sliding Table Saw Frames



Price Does Not Include Saw — *Right Hand Only*

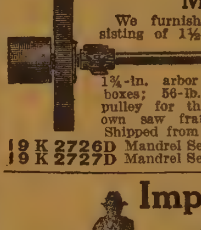
This Sliding Table Saw Frame can be used for cutting poles or slab wood. It is fitted with a 70-pound balance wheel. This balance wheel is mounted underneath the table where it will not interfere with sawing long poles. Our shingle and ripping table can be attached to this frame. Frame is made of selected hardwood; thoroughly bolted and braced. Any size saw blade from 20 to 30 inches may be used. Ripping table will swing Rip Saws up to 26 inches. **Price does not include saw.**

A 3 to 5-H. P. engine is required to operate this saw. Shipping weight, 320 pounds. Shipped from New York warehouse.

19 K 778D Right Hand Frame. Price..... **$24.15**

Improved Bevel Gear Barrel Concrete Mixer

Mixes all the Concrete for the Farm



Hundreds of farmers are buying this small concrete mixer to do their own concrete work around the farm. Walks, barn floors, tanks, troughs, fence posts, silo foundations are going in in concrete—and farmers are using their own spare time to do the work. It saves high-priced labor from town—it does the work when you want it done—and you always know the quality of the concrete you put in. It is a first class small concrete mixer that has few, if any, equals on the market for price and durability. The barrel is made of well seasoned hardwood. Supporting rings have 6-inch rollers which carry the load and make the barrel revolve easily. The gears are of the bevel type, at the bottom of the barrel, where they are protected from dirt and grit. Covered with guard to prevent accidents. Power is transmitted to gears from the drive shaft by sprocket and chain. The frame is made from 1¼x1¼-inch angle steel, substantially riveted and braced. When barrel revolves, the paddles in the barrel, together with the overthrowing motion, causes the concrete to mix in a very thorough manner. Paddles also assist in dumping mixture, leaving mixture clean. Will mix batch 2½ to 3 cubic feet. Use with 1½-H. P. engine. Shipped from factory in Iowa. Shipping weight, 250 pounds.

19 K 1002F Price, complete..... **$36.70**

It Pays to Grind

You can make better, more wholesome Corn Meal and Whole Wheat Flour than you can Buy. Be thrifty, Grind Your Grain at Home and Save a Trip to the mill.

Richland Feed Grinder and Ear Corn Crusher

Will Grind All Feed for Farm Consumption

One of the best mills on the market for grinding ear corn, shelled corn, wheat, oats, barley, rye and all kinds of grain, either separately or mixed. The following description shows it to be a splendid value: **One-Piece Cast Iron Frame** keeps all working parts in one line. Extra long bearings lined with best babbitt. **Safety Plug.** In case of an obstruction getting between the burrs the safety springs prevent breakage. **Ball Bearing End Thrust.** The grinding burr pressure is carried upon a set of ball bearings. **Spiral Cob Crusher** is fitted to main shaft. It reduces the cob to small pieces. **Feed Regulator.** At the front of the mill is the feed regulator with which you can regulate the grinding. **Grinding Burrs** are a late grapevine pattern made of chilled steel. Will grind the grain with little wear on the burrs. **Large Hopper** is made of steel. It is durable, riveted at the corners and securely bolts to the frame. **The Legs** are heavy angle iron, cross braced and fitted with holes for fastening mill to the floor. **Heavy Balance Wheel.** This insures the mill's running evenly and will overcome the effects of slight variations of speed in the engine. With one of these mills and a Maynard engine, you can grind all the feed you use, besides doing work for some of your neighbors. The capacity of the mill varies according to the size of the engine you use, the kind of grain and the fineness of feed desired. Furnished with galvanized steel hopper and 2 sets of burrs. Shipped from New York City.

Only Chilled Steel Burrs used in Richland Mills—Grapevine Pattern

Article No.	Article	Burrs	Pulley Diam. Face	H. P.	R. P. M.	Cap. Per Hour	Shpg. Weight	Price
19 K 420D	Richland Feed Grinder	8 in.	8 in. 6 in.	4 to 7	300 to 500	8 to 25 bu.	250 lbs.	$21.00
19 K 421D	Richland Feed Grinder	10 in.	12 in. 6 in.	8 to 20	400 to 800	20 to 60 bu.	800 lbs.	31.00

19 K 2601D	5-foot Sacking Elevator for either mill. Shpg. wt., 80 lbs. Price		$14.50
19 K 2602D	10-foot Sacking Elevator for either mill. Shpg. wt., 140 lbs. Price		20.00
19 K 2602A	Extra Burrs, 8-inch. Weight, 7 pounds. Per pair		1.35
19 K 2603A	Extra Burrs, 10-inch. Weight, 10 pounds. Per pair		1.55

Small Power Mill

Furnished with 2 Sets of Burrs

This mill is for small power use. With a 1½ to 3-H. P. engine you can grind from 10 to 30 bushels of shelled corn or other small grain per hour. The capacity will depend on how fine you wish to grind it and on the condition of the grain. Damp grain grinds much more slowly than thoroughly dry grain. This mill will also crack corn and small grain or grind table meal. Mill is made entirely of steel. This insures a very durable and substantial mill. The burrs are 6 inches in diameter. A set of safety springs protects the burrs from nails and any other foreign substance that may get into the hopper. The safety springs also keep the burrs apart when the mill is running empty. The bearings are long, well babbitted and long wearing. Shaft is of 1⅛-inch cold rolled steel. The hinged cover gives easy access to the burrs. Two sets of burrs are furnished with each mill. The pulley has a 6-inch face, and is 5½ inches in diameter. Speed of mill varies from 300 to 1,000 revolutions per minute, depending upon the size of engine, and the load. Furnished in one size only. Shpg. wt., 150 lbs. Shipped from New York City.

19 K 423H Price, for mill, complete with two sets of burrs.. **$9.35**

19 K 2526 Extra burrs. Shpg. wt., 4 lbs. Price, per set..... 90c

Feed, Flour and Meal Grinder

It is adjustable for either coarse or fine grinding. Burrs are 5½ inches in diameter; made of specially treated iron rarely excelled for hardness and durability. We furnish, with each mill, two sets of burrs, one coarse for grinding feed and cracking corn, and one medium for grinding table meal. With our new, positive, adjustable feeding device, the feed may be set so as to need only 1½ H. P. or it may be opened wide enough to need 5 H. P. The sifter or bolting attachment has a fine bolting screen which vibrates back and forth and sifts out the hulls, allowing only the fine meal to pass through the screen. The pulley is 6½ inches in diameter with 4½-inch face. Speed 600 to 1,000 R. P. M. Capacity, 5 to 30 bushels per hour. Shipped from New York City.

A Reliable Low Priced Standard Mill

Capacity 5-30 Bushels per Hour

19 K 422H Mill, with flywheel, bolting attachment and legs. Shipping weight, 100 pounds. Price..... **$21.00**

19 K 2527 Coarse Burrs. Shpg. wt., pair, 5 lbs. Price, per pair.. $1.20

19 K 2528 Fine Burrs. Shpg. wt., pair, 5 lbs. Price, per pair.. 1.20

Hand Corn Sheller

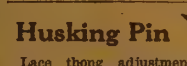
A small, very durable mill, made of heavy cast iron, with fine japan finish. Height, 11½ inches. Disc, 2½ inches. Used extensively for shelling field corn in moderate quantities. Has a spring adjustment for ears of different size. Deposits corn in box and cob outside. Can be used for shelling seed corn where there is only a small amount, or for shelling corn for a few chickens. About 3 bushels per hour. Shipping weight, about 15 pounds.

19 K 440B Price, each..... **$1.25**

Husking Hook

For right hand only. Made of leather, with two straps to fasten on hand. One steel corrugated hook. Shpg. wt., 5 ozs.

19 K 371 Each..... **25c**



Husking Pin

Lace thong adjustment with steel pin fastened on leather. Shipping weight, 3 ounces.

19 K 370..... **12c**

Husking Hook

Made of leather with double strap wrist band. Two hooks, well set. For right hand only. Plate curved to fit palm. Shpg. wt., 6 ounces.

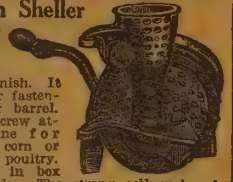
19 K 373 Price, each..... **45c**

Husking Pin

Wide leather forefinger protector. Pin of steel. Rest of leather furnished with strap. Shipping weight, 4 ounces.

19 K 372..... **14c**

Hand Corn Sheller



This sheller is made of heavy cast iron with a fine black japan finish. It has clamps for fastening to box or barrel. Large thumb-screw attachment. Fine for shelling seed corn or field corn for poultry. Deposits corn in box and cob outside. The strong coil spring is adjustable for ears of any size. Where you only have a small amount of corn to shell and do not need one of the larger shellers this is the size that will give you very good service. Capacity, 10 to 14 bushels per hour. Shipping weight, 18 pounds.

19 K 441B Price, complete with clamps..... **$1.55**

Hand Grist Mill

Grinds shelled corn, roots and bark, fine or coarse. The large balance wheel makes the mill easy to turn. Has base for bolting to table by means of lag screws not furnished.

19 K 413B Hand Grist Mill. Shpg. wt., 25 lbs. Price..... **$3.15**

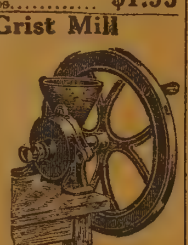
19 K 2531 Extra Burrs. Shpg. wt., 2 pounds. Price, per pair 60c

Link Chain Belting

Our best quality malleable iron Link Chain Belting. Made especially for use on mowers, reapers, corn and wheat drills, corn shellers, straw stackers, traction engines and feed cutters. **Be sure to give NUMBER of chain wanted when ordering.**

ARTICLE NUMBER	Link No.	Links Per Ft.	Working Strain Pounds	Shipping Wt. per ft. about ozs.	Price Per Foot
19 K 2775	25	13.3	75	4	13c
19 K 2776	32	10.4	150	6	15c
19 K 2777	34	8.6	225	6¾	15c
19 K 2778	35	7.4	250	6¾	16c
19 K 2779	42	8.8	300	8½	16c
19 K 2780	45	7.4	350	8	16c
19 K 2781	52	8.0	500	14½	18c
19 K 2782	55	7.4	450	11½	16c
19 K 2783	57	5.2	500	14	18c
19 K 2784	62	7.3	650	18	22c
19 K 2785	67	5.2	700	19	24c

Hand Grist Mill



Grinds or cracks all small grains, but not recommended for grinding bones or anything of an oily nature. Grinding plates adjustable by simple thumb-screw. Balance wheel, 18 inches in diameter. Can be bolted on to table or bench. Shpg. wt., 33 lbs.

19 K 414B Price, each..... **$3.60**

19 K 2532 Extra Grinding Plates. Shpg. wt., 3 lbs. Price, pair..... 60c

Force Feed Mill

A large capacity mill for grinding corn, peas, nut shells and broken oyster shells for poultry feed. Also makes fine table meal from small grains. Mill has a combination flywheel and pulley. It can be operated by hand, or by a 1½ H. P. engine. A feed plate regulates the amount of grain admitted to the grinding burrs. The hopper is extra large so that grain feeds to the burrs without bridging. Size of combination flywheel is 20 inches; size of pulley, 10x2 inches. Speed when operated by engine, 100 to 400 R. P. M. Capacity, hand power, 2 to 4 bushels per hour. Shipped from New York City. Shipping weight, 64 pounds.

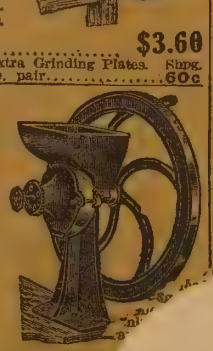
19 K 412B Grinding Mill, with combination hand balance wheel and pulley. Price, each..... **$7.35**

19 K 2529 Extra Grinding Plates. Shpg. wt., 1 lb. Price, per pair..... 60c

Force Feed Mill

An Excellent Mill for Grinding Poultry Feeds

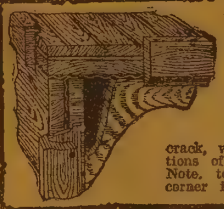
An excellent, medium capacity mill for grinding dry corn, barley, peas, nut shells, or stale bread for poultry feeds. It will also grind dry bones and oyster shells if they are first broken up and then fed slowly. You can make first class table meal from small grains with this mill. By means of the force feed or worm the grain is delivered to the burrs automatically. The mill can be used for cracking corn for chickens; either coarse for large chickens or fine for small chicks. Furnished with a 16-inch flywheel. Capacity, 1 to 2 bushels per hour. Shipping weight, 33 pounds. Shipped from New York City.



19 K 411B Force Feed Mill. Price..... **$4.20**

19 K 2530 Extra Burrs. Shipping weight, 2 pounds. Price, per set..... 45c

Improved Richland Incubators and Brooders



Incubator Top Construction

This cutaway illustration shows the excellent construction of the Improved Richland Incubator. Three thicknesses of lumber and insulating material are used through which heat or cold cannot penetrate. As in the case, only California Redwood is used which will not split, crack, warp or pull apart when subjected to variations of weather or moisture in the egg chamber. Note, too, that all corners are firmly bound with corner irons, which prevent opening up.

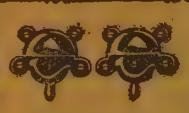
Note These Features

Thermostat Heat Regulator

Maintains Proper Incubating Temperature

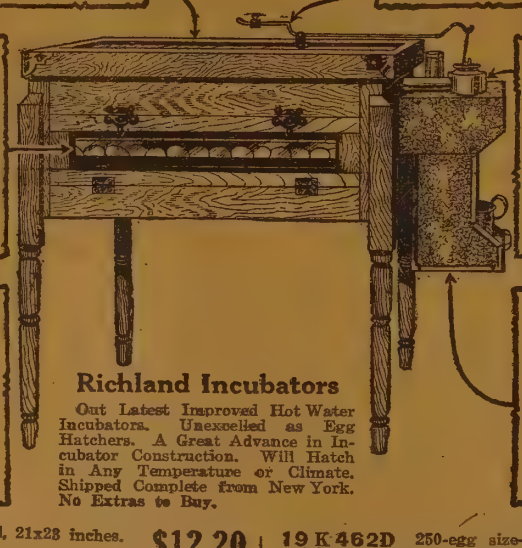
The temperature of the egg chamber is absolutely under control at all times. It is never necessary to get up at night to look at the incubator, nor to pay any special attention except when turning the eggs. The Thermostat Regulator can be thoroughly depended upon to do this work for you.

Adjustable Ventilators at top and bottom of egg chamber keep air pure and sweet at all times.



Incubator Door

Among the special features of the new improved incubator are the new patented door catches, which clamp the door tightly and prevent leakage around edges. Sufficient space is left around door, however, so that it will not bind when the egg chamber is saturated with moisture. The door is substantially constructed of redwood, and has two panes of glass, forming a dead air space between, which prevents outside air from radiating through. Thermometer, eggs in tray and chicks can be seen without opening door.



Richland Incubators

Our Latest Improved Hot Water Incubators. Unexcelled as Egg Hatchers. A Great Advance in Incubator Construction. Will Hatch in Any Temperature or Climate. Shipped Complete from New York. No Extras to Buy.

Heating System

The egg chamber is heated with a genuine non-rust, pure copper boiler and tubular tank which absolutely insures satisfactory service, during the life of the incubator. Various parts are double seam soldered and permanently fastened, which make leakage impossible. Our improved round-cornered tubular tank keeps water in circulation at all times, allowing no chance of air traps interfering with complete heat radiation.

Redwood Case

High grade California Redwood is used principally in the construction of the case. This wood will not crack, warp, split or pull apart, regardless of weather conditions or temperature in the egg chamber. The outside and inside walls are 1 inch thick, stripped and glued ¾-inch apart. This forms a dead air space between, preventing the outside temperature from affecting the egg chamber. This principle of construction is one of the big reasons for the success earned for this incubator as an egg hatcher. The case is richly finished with three coats of stain filler and varnished.

Lamp in Fire-Proof Jacket

The hot water system is heated with durable kerosene lamp. The reservoir is made of heavy gauge galvanized steel. The lamp is enclosed in fire-proof galvanized jacket, which removes any possible danger of fire. The lamp jacket also partly encloses the boiler, which prevents its being affected by the outside cold air and thereby enabling a more economical operation.

19 K 460D 80-egg size—floor space required, 21x23 inches. Shipping weight, 80 pounds. Price, each..... **$12.20**

19 K 461D 160-egg size—floor space required, 27x30 inches. Shipping weight, 120 pounds. Price..... **$16.85**

19 K 462D 250-egg size—floor space required, 31x30 inches. Shipping weight, 145 pounds. Price..... **$21.95**

19 K 463D 400-egg size—floor space required, 40½x40½ inches. Shipping weight, 200 pounds. Price..... **$34.75**

Richland Hot Air Incubator

Holds About 50 Eggs

This new and improved All-Metal Hot Air Incubator has been accepted and approved by poultry raisers because of its simplicity of construction and economy of operation. There is nothing to get out of order—nothing complicated that needs watching—no failures. It is thoroughly dependable and reliable. The open view below shows what constitutes the entire outfit dissembled. Thermostat control. The improved air-cooled safety burner is directly under middle, distributing heat uniformly. Made of strong, durable materials. Built of lightweight sheet steel. Body is 18 inches diameter; 13 inches high. Shipping weight, 16 pounds. Shipped from New York City.

19 K 457B Price, complete with egg tester and thermometer..... **$5.40**

19 K 476B Combination Outfit of Richland Hot Air Incubator and Economy Hover Brooder. Price, complete..... **$9.75**

Interior view showing simplicity of New Hot Air Incubator Egg Tester, Moisture Pan and Thermometer Furnished without extra cost

Economy Brooder Hover

This is the New Economy

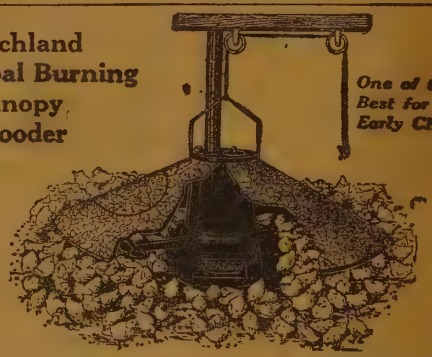
The Economy Hover Brooder is simple in construction and made of steel throughout. All parts are seamed or welded together, making it light, strong and durable. It is complete in itself and can be conveniently lifted by the two handles without disturbing the lamp. It can be used anywhere, as it stands on a level floor; no platform, false floor or other preparation necessary. As only a small flame is required to keep up the temperature, it can be used anywhere with perfect safety; also, the lamp is inside, and no heat is lost. The lamp is held securely in a lamp slide, accurately fitted in a lamp box. Adjustment is never necessary. —simply push the slide in as far as it will go. The curtain is double and made of outing flannel, and is attached to the drum of the hover with large eyelets and hooks.

19 K 472B Hover (18-in. drum). Shipping weight, 14 pounds. Price, complete..... **$4.63**

19 K 476B Combination Outfit, consisting of above hover and 19 K 457 Hot Air Incubator. Price..... **$9.75**

Richland Coal Burning Canopy Brooder

One of the Best for Early Chicks



This galvanized steel canopy brooder is one of the finest for raising early chicks. The stove gives enough heat to warm a large area of floor space without overheating the brooder house, so that the chicks can run around comfortably outside of the hover in the coldest weather. Hover can be placed in a vacant room or in any small building. Stove pipe carries away the smoke and fumes from fire so that the chicks have clean, pure air. The Cast-iron Stove is designed especially for brooding purposes. Has large grate area and fire surface, which means a lively, brisk fire that never smoulders out. Has grate of the rocker type, which absolutely prevents clogging. Large firepot slopes outward so the coal never hangs and holds enough fuel to burn more than 24 hours. Needs to be filled but once a day and requires no further attention, has a very sensitive regulator that controls the draft and automatically keeps the heat even under all conditions, at all times.

19 K 470D Brooder with canopy, 42 inches in diameter. Stove, 18 inches high; capacity, 500 chicks. Shpg. wt., 78 lbs. No pipe furnished. Price..... **$14.80**

19 K 471D Brooder with canopy, 48 inches in diameter. Stove 21 inches high; capacity, 1,000 chicks. Shpg. wt., 95 lbs. No pipe furnished. Price..... **$18.25**

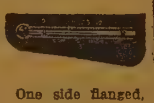
Incubator Hygrometer

This accurate instrument indicates the percentage of moisture during incubation. It aids the poultry raiser materially in successfully regulating the moisture for ideal hatching conditions. Shipping weight, 1 lb.

19 K 509 Price, each..... **72c**

19 K 510 Extra silk wicks. Price, each..... 6c

Incubator Thermometer



High grade incubator thermometer, 4 inches long. One side flanged, tube well seasoned. Jena glass bulb. Black oxidized brass scale with large white figures. Neat and very accurate. Shpg. wt., 2 ozs.

19 K 505 Price, each..... **38c**

Brooder Thermometer

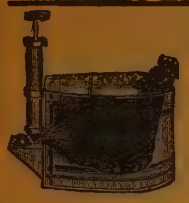
A standard high grade brooder thermometer 8 inches over all. So constructed that it can be read without removing it from the brooder. Oxidized brass scale with contrasting white figures. Shpg. wt., 8 ozs.

19 K 506 Price, each... **43c**

Customer Pays Delivery Charges on Every Article on This Page

CHARLES WILLIAM STORES New York City

High Grade Poultry Supplies



Insect Destroyer

For Full Grown Hens Only

For Quick, Thorough Work

$6.85

This arrangement permits a thorough delousing or insect destroying of full grown hens. Although a little more in cost than other methods, it saves you money through doing a complete job, ridding the hen completely of all parasites. The fowl is enclosed in tank, as illustrated, with only head protruding through space for this purpose. By working the pump handle at back, the contents of reservoir are sprayed on and about hen in tank. Made of heavy gauge galvanized iron, well finished. Shipping weight, 10 pounds.

19 K 491 Insect Destroyer. Price, each..... **$6.85**

Poultry Shipping Crate

This crate will soon save its cost by reducing express charges. Round corner crate made of elm. Crates are made up when green and when dry weigh only 18 pounds. 38 inches long, 26 inches wide and 12 inches high. The door on top is locked with a spring catch. This coop is very light in weight and durable. Any home-made coop will probably weigh twice as much as this crate. Shipping weight, 18 pounds.

19 K 493H Price, each..... **$2.35**

Poultryman's Root and Vegetable Cutter

Cuts up all roots and vegetables such as beets, carrots, turnips, cabbages, potatoes and mangles into fine strips suitable for poultry. This kind of feed is a great help in producing eggs at a low cost. Cutter turns easily and cuts rapidly. Cannot choke. Well built to stand long service. Every poultryman should have one. Shipping weight, 30 pounds.

$5.75

19 K 388B Price, each.....
19 K 2678 Extra Set of 20 Knives and Bolts. Shpg. wt., 1 pound. Price, set..... **$1.15**

Oat Sprouter

Grows tender green oat sprouts quickly. No lamp or fuel required. Insures plenty of green food at a time when it is not otherwise available. You can produce springtime conditions in the Winter and increase your egg production. Sprouter has perforated galvanized pans, 11x17 inches. One bushel of oats will make about four bushels of green, sprouted feed. Simply soak oats 24 hours, then place in pans and sprinkle a few times a day and you will soon have a supply of food for your fowls. Upper pans are perforated to allow proper drainage while bottom pan is solid to catch all moisture.

19 K 503B Shpg. wt., 14 lbs. Price, 8 pans..... **$3.15**
19 K 504B Shpg. wt., 9 lbs. Price, 5 pans..... **$2.10**

Heavy Gauge Galvanized Supplies

Galvanized Vegetable Rack

For feeding roots, beets, cabbage and other vegetables to poultry. Saves feed that would otherwise be lost. Just put your green stuff in the rack and the chicks will pick from it without wasting any. The round trough at the bottom catches all falling particles. Made of galvanized iron with wire holder 13 ins. high, 8½ ins. wide; 2 holes in back to attach to wall. Shpg. wt., 2 lbs.

19 K 481 Price, each..... **56c**

Drop Bottom Fountain

We consider this one of the most sanitary fountains made. Can be used on floor or hung on wall. Note hood over trough which prevents dust and dirt from falling into water. Heavily galvanized iron with hinged bottom.

19 K 487 Two Quart Size. Shpg. wt., 2 lbs. Price, each..... **65c**
19 K 488 Four Quart Size. Shpg. wt., 3 lbs. Price, each..... **87c**

Fountain Heater

Keeps drinking water warm. Furnished with safety lamp and broad base that fowls cannot tip over. Reservoir holds oil to last several days. For any size drinking fountain up to 4 gallons. Diam., 10 ins.; height, 10 ins.; base diam., 13 ins. Shpg. wt., 7 lbs.

19 K 492B Price, each.. **$2.55**

Feed and Grit Box

Three Compartment Size

The box made of galvanized iron. Can be easily cleaned and filled. Has a lid which will keep feed clean. May be used for grit, bark and all kinds of feed. Shipping weight, 3 pounds.

19 K 486 Price, each..... **80c**

Feed and Grit Box

Two Compartment Size

Made of galvanized iron in two compartments. Size, 5 ins. wide, 8 ins high. Has hanging holes perforated in back, so that it may be hung on the wall away from dirt. This is a very substantial box, well made with hinged lid. Can be used for charcoal, grit or any kind of feed. You may give your chicks a mixed feed by using each compartment for a separate feed. Shpg. wt., 1 lb.

19 K 480 Price, each..... **55c**

New Jar Fountain

Improved Jar Fountain. Feeds water, scratch feed, milk, charcoal—or in fact any other cracked feeds equally well. Four large holes permit a ready, easy flow without running over. Galvanized with well finished cap spot welded to pan bottom. 6 in. diam.; 1 in. deep. Jar Not Furnished. Shpg. wt., ½ lb.

19 K 525 Price, each..... **9c**

Mason Jar Fountain

The Standard for Years

A pint, quart or half gallon Mason jar will fit on this jar fountain. Very economical and satisfactory. Made of special metal. Cannot leak. Can be used for feed as well as water. One size only. Glass jar not included. Shpg. wt., ½ lb.

19 K 501 Price, each..... **10c**

Baby Chick Feeder

Cannot Upset
Very Economical

This is a great feed saver; the little chicks cannot get into it and spoil the feed. It cannot upset. Made of galvanized iron with holes in cover through which chickens pick grain. Also used for water or milk.

19 K 497 6-inch diameter, 3 feeding holes. Shpg. wt., 1 pound. Price, each..... **14c**

12 Chick Size Feeder

A Big Feed Saver

Soon Pays Its Cost

Made like our 19 K 497 but larger, for 12 chicks. Made of heavy galvanized iron, 8¼ inches in diameter. 12 feeding holes. Shipping weight, 1½ pounds.

19 K 496 Price, each..... **21c**

Fancy Egg Carton, oblong shape, 6x2. Made of cardboard, with neat design on top and cover. Capacity, 1 dozen. Shpg. wt., 32 lbs.

19 K 520B Price, package of 250.. **$2.55**

Bulli's Parcel Post Egg Boxes

19 K 498B Capacity, 1 doz. Shipping weight, 35 pounds. Price, package, of 50 only..... **$3.95**
19 K 499B Capacity, 2 doz. Shpg. wt., 28 pounds. Price, package of 25 only.... **$3.35**
19 K 500B Capacity, 3 doz. Shpg. wt., 43 pounds. Price, package of 25 only..... **$4.55**

Egg Cartons

Holds one dozen eggs. Made of cardboard with attractive cover design.

19 K 518B Package of 250. Shpg. wt., 28 lbs. Price, **$1.96**
19 K 519B Package of 500. Shpg. wt., 55 lbs. Price **$3.85**

Improved Handy Hopper

Rat, Mouse and Dirt Proof

An unusually well made, sanitary hopper of heavily galvanized iron with all parts welded together. Provided with hinge on top as well as on hopper, a new feature, which prevents rats from eating feed at night. Is absolutely dirt-proof. Feeds easily without clogging. Measures 19 ins. high, 24 ins. wide. Shpg. wt., 11 lbs.

19 K 482B Improved Handy Hopper. Price, each..... **$2.20**

Leg Bands—Colored

Made of Celluloid. Blue, White, Red, Yellow and Green. Fifty of one color and size in a package. We do not break packages. State COLOR. Shipping wt., 4 ozs. per pkg.

19 K 507 Small (for Leghorns). Price, for fifty..... **22c**
19 K 508 Medium (for American breeds). Price, for fifty..... **26c**

Leg Bands—Numbered

Made of aluminum, embossed figures, adjustable as to size. Shpg. wt., 4 oz. for 25. Prices are for 25 bands.

19 K 512 Numbered 1 to 25..... **13c**
19 K 513 Numbered 26 to 50..... **13c**
19 K 514 Numbered 51 to 75..... **13c**
19 K 515 Numbered 76 to 100..... **13c**

Poultry Punch

Spring Poultry Punch for marking chicks. Punches holes through web between toes. Nickel finish. Durable. Shpg. wt., 2 ozs.

19 K 511 Price, each..... **24c**

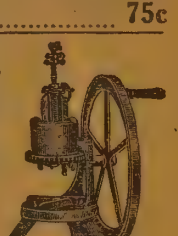
Exerciser and Feeder

A novel arrangement to keep the fowls well exercised. No waste; reduces feed cost; rat and bird proof; makes for better hens. Increases the egg yield; improves fertility—can be regulated to feed fast or slow—either large or small grains. Hung from rafter of hen house over litter or straw and hens will pick at grain in wire cone, jarring the grains from bag which strike the deflector and scatter in straw—the hen will have to scratch and pick to get the feed—with these feeders there can be no over-fat, lazy—or non-laying hens—bag holds 8 quarts. Shpg. wt., 1½ lbs.

19 K 516 Price, each..... **75c**

Improved Mann's Pattern Bone Cutter

This cutter has the late improved automatic feed. It is provided with a large, heavy balance wheel which makes turning easy. The cylinder is 6 inches in diameter and 4 inches deep. There are four grooved, tempered steel knives that are interchangeable. Cutter is mounted on frame, which can be bolted to bench. Shpg. wt., 85 lbs.



19 K 385B Price, complete,.. **$12.95**

19 K 386B Same as above, with crank handle instead of balance wheel. Shpg. wt., about 51 pounds..... **$9.78**
19 K 384C Same as illustrated with balance wheel and stand. Weight, 220 lbs. Price. **$16.75**

Poultry Feed Bin

A compact, combination bin of three compartments that is designed to hold three kinds of feed under one cover. Keep your feed in one place. Made of heavy galvanized iron with hinged cover extending clear across top. Is rat and mice proof. Each compartment will hold 1½ bushels of feed. Bins are held together with steel braces. Each bin 15 inches in diameter. Height, 24 inches.

This is your Farm Equipment BARGAIN Book. These Low Prices will save you Money. Keep it for your fall and winter needs.

19 K 484B Three compartment Bins. Shpg. wt., 42 lbs. Price..... **$6.40**

19 K 483B Two compartment Bins. Shipping weight, 30 pounds. Price **$4.35**

Galvanized Iron Square Fountain

Extra Heavy Quality

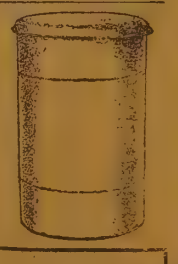
Made of good quality, heavy galvanized iron. Furnished in two sizes—one and two gallon. A very practical and handy thing to have about the poultry yard. Shipping weight, 2¼ pounds.

19 K 489 1-gal-size. Each **60c**
19 K 490 2-gal. size. Shpg. wt., 3 pounds. Each..... **73c**

Galvanized Iron Feed Bin

These bins have been made to meet a demand for economical and space-saving containers. They are made to hold a 100-pound sack of feed. They are proof against rats and mice. Strongly constructed of galvanized iron. Heavy, tight-fitting lid; can be used for filling feed hoppers. Size of bin, 27 ins. high, 18 inches diameter. Packed one in a crate. Shipped from New York City. Shipping weight, 35 pounds.

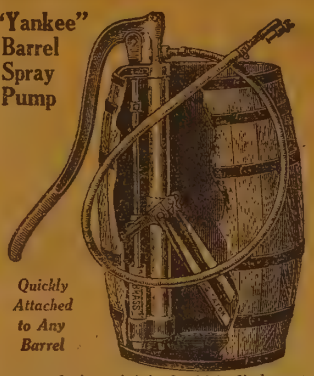
19 K 528B Price, ea. **$3.69**



Parcel Post and Freight Rates on Page

Pickland Sprayers

"Yankee" Barrel Spray Pump



Quickly Attached to Any Barrel

Double-acting barrel spray pump. Requires no priming. The pump barrel is made of heavy brass as are all valves and valve seats—ground together, making all parts airtight. The parts will not rust or corrode, nor is any part of the pump affected by strong mixtures. The plunger packing is a specially treated canvas, unaffected by the strong mixtures which would destroy a leather packing. The pump is easily and quickly attached to any barrel by bolting through the casting to the upper end of staves. Works with compressed air, throwing a stream with great force or a continuous spray as desired. The duplex agitator keeps the liquid stirred up and prevents the ingredients from settling. This style agitator is simple, effective and recognized as one of the most efficient. The pump is regularly fitted with ½-inch 5-ply rubber hose of A-1 quality, Vermorel Brass Nozzle, from which any size spray or stream can be thrown, impossible to clog. The liquid is compressed in the large air chamber by a few strokes of the pump. A steady pressure on nozzle is maintained which discharges a continuous, powerful spray. Very slow and easy pumping produces maximum results. The "Yankee" is used extensively for all spraying purposes, especially for orchards, vineyards, shrubbery and whitewashing. **Barrel not furnished. Equipment**—5 feet of three-ply, ½-inch hose and Vermorel non-clog nozzle. Shipping weight, 45 pounds.

19 K 720B **"Yankee" Barrel Spray Pump.** Price, with one lead of hose **$11.75**
19 K 726 Brass "Y" to connect to two leads of hose. Shpg. wt., 1 lb. Price.. **$1.06**
19 K 727 Extra 5-ft. length of hose with Vermorel Nozzle. Shpg. wt., 3 lbs. Price **2.55**
19 K 728 Extra 15-ft. length of hose with Vermorel Nozzle. Shpg. wt., 6 lbs. Price **4.45**

No. 60, Wheelbarrow Sprayer

12 Gallon Heavy Galvanized Tank

Double Action Pump

Special Features
Detachable All Brass Pump
Simplex Non-Cloggable Nozzle
Electrically Welded Frame
Furnished Complete—No Extras to Buy

Large Wide Rim—Easily Wheeled

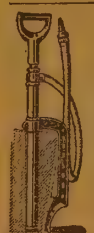
This Wheelbarrow Sprayer was made especially to withstand extraordinary wear. The frame is electrically welded, making it as strong as one solid piece. The large wide rim wheel makes the outfit wheel easy and prevents sinking in the ground. The galvanized tank is quickly detached from the frame and the pump from the tank, and, if desired, the wheelbarrow and tank may be used without the pump for wheeling water about. The pump furnished is strong and durable, double-action, very powerful and easily operated and throws a continuous unbroken spray. Has all brass working parts, pump cylinder, valves, etc. Mechanical agitator keeps liquids thoroughly mixed. Plenty of hose and extension pipe is included.

This outfit is adapted for all spraying purposes and extensively used by gardeners, orchardists and florists; also highly adapted for spraying disinfectants, whitewash and cold-water paint. Furnished with 8 feet of hose with Simplex brass, non-cloggable nozzle attached. Easily detached for cleaning. Iron extension pipe with each outfit for elevating spray. One or more lengths may be used.

19 K 721B Wheelbarrow Sprayer as described. Shipping weight, 85 lbs. Price, complete..... **$19.95**
19 K 724 Bordeaux Nozzle for whitewashing. Shpg. wt., 4 ozs. Price, each.. **68c**

Bucket Sprayer

A Big Favorite With Our Customers



Used for spraying shrubbery and vegetables of all kinds, also for whitewashing. Pump is solid brass, double-action with two seamless brass cylinders, one inside the other. Has great pressure. Easy to operate and may be used with any pail. Furnished with 3 feet of high grade rubber hose, one brass spray nozzle and one to provide solid stream for washing purposes. Shipping weight, 5½ pounds.

19 K 705A Price, complete..... **$2.60**

Bucket Sprayer

Our Very Best Quality

Fits any bucket or pail and is easily attached to barrel. Made entirely of brass. Has large air chamber, producing continuous spray with slow pumping. Very powerful and easily operated. Malleable Iron handle and foot-rest. Equipped with 3 feet heavy hose and 2 brass nozzles for fine or coarse spray. Automatic agitator built in pump base. For all spraying purposes. Shpg. wt., 8 lbs.

19 K 703B Price, complete..... **$5.15**

Bucket Sprayer

Good for Whitewashing

Whitewash your Poultry House, Stables, Cellars and Fences with this pump. Fits any pail or bucket. Adapted also for spraying shrubbery, small trees, washing windows and buggies. Galvanized pump with excellent metallic point with brass top and bottom. One foot brass extension pipe and brass nozzle furnished. Shpg. wt., 3½ lbs.

19 K 704A Price, complete..... **$2.15**

Bucket Sprayer

This Sprayer works like a bicycle pump; pulling wood handle back and forth while the strainer end of the suction hose is placed in a bucket, tank or barrel. Produces a continuous spray. Solid brass. Practically indestructible. No leather packings, no valves of any kind to wear out. Used for spraying gardens, orchards, washing buggies and windows, wall washing and disinfecting. Also makes an excellent fire extinguisher. Nozzle for fine or coarse spray. Shipping weight, about 3½ lbs. **Not Mailable.**

Works Like a Bicycle Pump

19 K 708B Price, complete..... **$3.48**

New Improved Compressed Air Sprayers

Here are New Improved Sprayers Well Known to Every Farmer.

Why Pay More Than These Lower Prices?

Smith No. 22 "Banner" Compressed Air Sprayer

Throws continuous stream with great force. Used very successfully for spraying potato vines, shrubbery, all kinds of plants and fruit trees. For whitewashing, washing windows, spraying fly oil on cattle and disinfecting. Made with a double seamed head, tank well riveted to stand a heavy pressure. Tank is 21 inches high and holds about 4 gallons. The pump is made of heavy brass and screws into the center of the head. Very few strokes of pump will create enough pressure to discharge the contents of the tank. Regular equipment consists of 2 feet of ½-in. spray hose with Automatic Brass Nozzle, which will not clog nor waste liquids. Furnished with either brass or galvanized iron tank. By attaching one or two lengths of our brass extension rod to the hose of the sprayer it can be used for spraying trees.

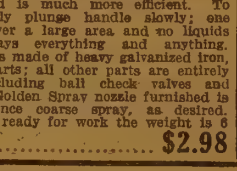
19 K 700B Sprayer, galvanized iron. Shipping weight, about 10 pounds. Price, with nozzle as shown..... **$4.35**

Sprayer, same as above, but with tank, as well as pump, of heavy brass. Shipping weight, 10 lbs.
19 K 701B Price, each..... **$6.95**

3-foot Brass Extension Rod. Shpg. wt., 1 lb.
19 K 723A Price, each..... **65c**

19 K 724 Extra Bordeaux Nozzle, for whitewash or cold water paint. Shipping weight, 4 ounces. Price, each..... **68c**

"Lightning"—the New Garden Compressed Air Sprayer



A small, one-handed, 2-gallon Compressed Air Sprayer. Home gardeners will find it an excellent sprayer for all small work. With the "Lightning" you simply pump up a little pressure in the tank—and by means of a convenient lever just below the handle, you can easily and quickly spray your garden or small shrubbery. By means of an automatic nozzle it throws a fine mist or coarse spray. By detaching elbow, nozzle may be screwed directly to shutoff, which throws spray straight ahead. A few pumpings of the handle are usually sufficient to completely discharge contents of tank. Two-inch pump and casting made entirely of brass that will not corrode. Tank is of best galvanized steel; cap., 2 gals. Shpg. wt., 7 lbs.

19 K 744A "Lightning" Compressed Air Sprayer. Price, each..... **$4.40**

Jim Dandy

The New Sprayer *"As Quick as Lightning"*

The Jim Dandy works twenty-five times more rapidly than any hand sprayer and is much more efficient. To operate, simply plunge handle slowly; one stroke will cover a large area and no liquids wasted. Sprays everything and anything. The reservoir is made of heavy galvanized iron, capacity 2 quarts; all other parts are entirely of brass, including ball check valves and nozzle. The Golden Spray nozzle furnished is adjustable for fine mist spray or long-distance coarse spray, as desired. When empty it weighs 2 pounds, when loaded ready for work the weight is 6 pounds. Shipping weight, 2½ pounds.

19 K 742A Price, each..... **$2.98**

General Utility Tank Sprayer

Made with Brass Nozzle, Brass Cylinder, Brass Barrels and Valve Seats. Galvanized steel tank, holds 7 gallons. Pump is ENTIRELY of BRASS. Malleable iron lever handle; 8-foot heavy, detachable hose, with brass stop cock and brass NON-CLOGGING NOZZLE for long distance fine mist or coarse spray. Pump is double acting, requiring no priming. Operator is able to keep a constant pressure on nozzle of from 50 to 100 lbs., thereby producing a powerful continuous unbroken spray or stream, with slow easy pumping. The dash agitator keeps liquids thoroughly mixed and prevents settling. Pump is quickly detached from tank and may be used without tank. Shpg. wt., 30 lbs.

19 K 743B Utility Tank Sprayer. Price, complete..... **$11.85**
19 K 724 Bordeaux Nozzle. Price, each.. **68c**

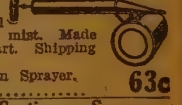
Spray Pump and Fire Extinguisher

Throws a Stream 50 Feet

For spraying disinfectants, whitewash or cold water paints. Used for whitewashing stables, poultry houses or spraying vegetables, flowers, vines, shrubbery, live stock or for washing vehicles and windows. As a fire extinguisher it will throw a stream 40 to 50 feet. Metal tank holds 5 gallons. Brass pump fitted with brass valve throws a continuous spray. Furnished with 3 feet of hose with couplings, spray and fire nozzles. **Not Mailable.**

19 K 707B 7-gallon size. Shpg. wt., 17 lbs. **$6.75**
Price, complete...
19 K 725A 3-foot Iron Extension Rod. Shpg. wt., 1 lb. Price, each..... **25c**
19 K 724 Bordeaux Nozzle for Spraying Whitewash. Shpg. wt., 4 ozs. Price, each..... **68c**

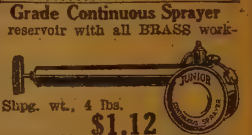
Hand Garden Sprayer



A good sprayer for small disinfectants. Throws fine mist. Made of tin. Holds about 1 quart. Shipping weight, 1½ pounds.

19 K 740 Hand Garden Sprayer. Price, each..... **63c**

Junior High Grade Continuous Sprayer



Double seamed reservoir with all BRASS working parts. Slow pumpings produce continuous, unbroken spray in large volume. Nicely finished. Shpg. wt., 4 lbs.

19 K 741A Price, each..... **$1.12**

These Attachments Fit All Sprayers

Brass Lever Nozzle
Works automatically by hand pressure. Will not clog as obstructions are agitated and forced out by pressing lever. Fits ¼-inch pipe. Shpg. wt., 12 ozs.
19 K 732 Price, each.... **$1.25**

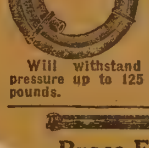
Single Vermorel Nozzle
19 B 733 With two caps for fine or coarse spray. Cannot clog. 15 ounces. Price, each.. **78c**

Double Vermorel
19 K 734 Comprising two of above mounted on brass "Y." Shpg. wt., 1½ lbs. Price, ea. **$1.98**

Golden Wide Spray Nozzle
For spraying shrubbery and vegetables. Throws a larger spray than a double Vermorel Nozzle. Fits any sprayer listed. Shpg. wt., 3 ozs.
19 K 736 Price, each... **55c**

Bordeaux Nozzle
Made of brass and used for spraying whitewash or cold-water paint. Nozzle will clean itself by simply turning lever. Shpg. wt., 4 ozs.
19 K 724 Price, each..... **68c**

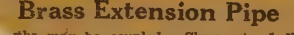
Rubber Sprayer Hose



19 K 729 ⅜ in., 5-ply hose. Shpg. wt., 6 ozs. to foot. Price, per foot..... **10c**
19 K 730 ½ in., 5-ply. Shpg. wt., 50 ft., 19 lbs. Price, per foot..... **12c**
19 K 731 ¾ in., 5-ply. Shpg. wt., 50 ft., 22 lbs. Price, per foot..... **15c**

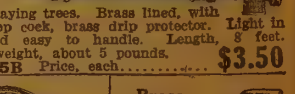
Will withstand pressure up to 125 pounds.

Brass Extension Pipe



...ths may be coupled. Shpg. wt., 1 lb.
23A Price, per 3 feet..... **65c**
5A Iron extension pipe, 3 ft. Shpg. Price, per 3-ft. length..... **25c**

Bamboo Extension Pipe



For spraying trees. Brass lined, with leakless stop cock, brass drip protector. Light in weight and easy to handle. Length, 8 feet. Shipping weight, about 5 pounds.

19 K 735B Price, each..... **$3.50**

Brass Angle

To be used on end of extension rod to direct spray nozzle. Shpg. wt., 3 ozs.

19 K 737 Ea.. **33c**

Brass Ground Key Shut Off

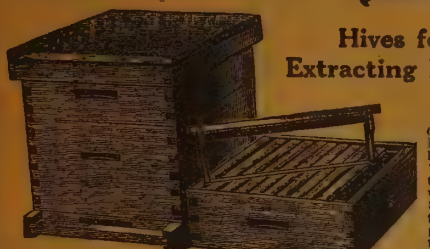
With two female ends threaded for ¼-inch pipe. Shpg. wt., 10 ozs.

19 K 739 Price, each.... **$1.25**

Customer Pays Delivery Charges on Every Article on This Page

CHARLES WILLIAM STORES New York City

A. I. Root QUALITY Bee Supplies



Hives for Extracting Honey

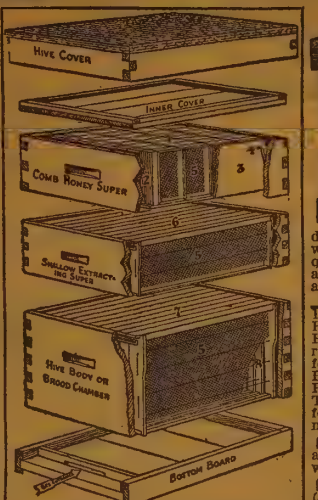
The main difference between this hive and our 19 K 553 B is the Super, which is a Shallow Extracting Super (see Sectional Illustration). In all other respects it is practically the same. It is generally used for young colonies that make a surplus of honey, but not enough for building combs. This hive is also particularly adapted for developing young colonies, but when used for this purpose, a Queen Excluder should be used, placed between the Brood Chamber and Super. The Hive complete is made of fine selected pine, accurately milled and dovetailed. It is made by the famous A. I. Root Co., the foremost manufacturer of high quality Bee Keepers' supplies in the country.

What this Hive Consists of: (Compare with Sectional Illustration) 1 Double Telescoping Cover with Metal Cap; 1 Inner Cover; 1 Shallow Extracting Super, 5 11/16 inches deep, equipped with ten 5⅜-inch Shallow Extracting Frames (no foundation) and accessories; 1 Brood Chamber, 16¼x20x9⅛ inches deep, equipped with ten Hoffman Hanging Frames (no foundation); and 1 Reversible Bottom Board. Everything necessary to put this hive to work is furnished with exception of foundation and foundation wire, which is furnished extra (listed below).

19 K 550B Hive for Extracting Honey, complete, as quoted above (no foundation or foundation wire). Shpg. wt., 45 lbs. Price..... **$5.10**

19 K 552B Set of 5 complete Hives for Extracting Honey (style No. 19 K 550B). Shipping weight, 175 lbs. Price, per set.... **$23.00**

19 K 551B Extra Shallow Extracting Supers, complete, with ten Shallow Extracting Frames each (no foundation or foundation wire). Shipping weight, 42 lbs. Price, per crate of 5..... **$5.00**



Sectional Illustration

1. Section Boxes
2. Section Holders
3. Section Fence
4. Super Spring
5. Foundation (not furnished with frames)
6. Shallow Extracting Frames
7. Hoffman Hanging Frames
8. Frame Wire (not furnished with frames)

Hives for Comb Honey

This is the most commonly used hive for the production of comb honey in Beeway Section Boxes 4¼x4¼x1⅞ inches. It is used widely by large honey producers, on account of its solid construction, light weight, and ease with which it can be moved from one location to another. It is of the highest quality throughout, made of fine selected white pine, accurately milled and fitted together. It is an A. I. Root product, favorably known by all bee keepers.

What this Hive Consists of: (Compare with Sectional Illustration) 1 Double Telescoping Cover with Metal Cap; 1 Inner Cover; 1 Comb Honey Super, 4¾ inches deep, equipped with seven slotted Section Holders, slotted wood separators, fence and springs. Nails and tin rabbets are also included, but no Beeway Section Boxes, foundation, or foundation wire. (These are purchased separately, listed below); 1 Brood Chamber, 16¼x20x9⅛ inches deep, equipped with ten Hoffman Hanging Frames (no foundation); and 1 Reversible Bottom Board. This hive is complete with the exception of Beeway Section Boxes, foundation and foundation wire. For convenience in shipping, these must be purchased separately (listed below).

19 K 553B Standard Bee Hive for Comb Honey, complete, as quoted above (no Beeway Section Boxes, foundation or foundation wire). Shipping weight, 42 lbs. Price..... **$5.00**

19 K 554B Set of 5 complete Standard Bee Hives for Comb Honey (style 19 K 553B). Shipping weight, 180 lbs. Price, per set. **$22.75**

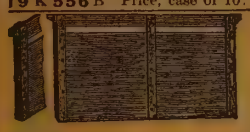
19 K 555B Extra Comb Honey Supers, complete, with seven slotted section holders, slotted wood separators, fence and springs, nails and tin rabbets. (No Beeway Section Boxes, foundation or foundation wire.) Shipping weight, 35 lbs. Price, per crate of 5..... **$4.75**

Safety Shipping Case

Shipping cases for 24 pounds of honey are made of sound basswood with a glass section in front. The case is deep enough to allow a layer of corrugated paper to be placed under the sections. There is also a paper pan under the paper to catch the leakage. With a well-built shipping case like this your honey should reach the market in excellent condition. Shpg. wt., 48 lbs. Shipped flat.

Not Mailable

19 K 556B Price, case of 10..... **$6.00**



Plain Division Boards—No Chaff

This board is used as a follower with spacing frames such as the Hoffman or closed end. They have the same length and depth as the brood frames with end board ¾ inch square and panels 3/16 inch thick, that slip into the grooves in the end bars. When there is less than the required number of combs to fill the hives, division boards are almost a necessity to prevent the bulging of the outside combs. Made of fine selected pine, well milled and finished.

19 K 557 Plain Division Boards. Shpg. wt., 8 ozs. Each... **15c**

Queen Excluders

Queen excluders or honey boards are used to confine the queen to the brood chamber. They are placed between the brood chamber and super, since the openings are just large enough to permit only worker bees to pass through. Shipped from New York City.

19 K 560 Queen Excluder, 8 frame. Shipping weight, 2½ lbs. Price..... **67c**

19 K 561 Queen Excluder, 10 frame. Shipping weight, 3 lbs. Each.... **75c**

Wire for Frames

This wire is used to hold foundation or combs securely in the frames, and at the same time reduce the danger of sagging. 670 feet are required for 100 Hoffman frames.

19 K 581 ¼ lb. spools tinned wire, 463 ft. Sh. wt., 6 ozs. Each **15c**
19 K 582 ½ lb. spools tinned wire, 926 ft. Sh. wt., 10 ozs. Each **25c**
19 K 583 1 lb. spools tinned wire, 1850 ft. Sh. wt., 18 ozs. Each **45c**

Foundation Fastener

With this tool you can heat the foundation to the proper intensity so that it can be placed in exactly the right place in the section. We supply a lamp that has a tin chimney and wire holder for heating the fastener. The illustration shows it in use.

Foundation Fastener with lamp. Shipping weight, 8 ozs.
19 K 572 Price, complete... **60c**

Foundation Fastener without lamp. Shipping weight, 4 ozs.
19 K 573 Price, each..... **20c**

Bee Smokers

The smoker we list is recognized as one of the best made. It is made of tin; flexible bellows with an anti-spark tube. Has a flexible hinge with a long shank, a wire handle, spout can be opened or closed. Bellows has metal binding. Our small size, The Junior, has a 2½-inch fire box and the larger size, Standard, 3¾-inch fire box. Burns any kind of fuel.

19 K 562 Junior Tin Smoker. Shipping weight, 1¼ lbs. Price, each..... **$1.00**

19 K 563 Standard Tin Smoker. Shpg. weight, 2 lbs. each. **$1.30**

Bee Escapes

In taking off honey the bee escape is a remarkable labor saver. It frees the supers of bees so that shaking and smoking is unnecessary. When placed between the super and brood chamber the escape board with double bee escape will free super in 12 to 24 hours.

19 K 568 Bee Escape, without board. Shipping weight, 1 oz. Price, each..... **18c**

Beeway Section Boxes

The kind of sections most commonly used. They are polished on both sides and are uniform in thickness — a full ⅛ of an inch. Our shear-cut method of cutting the V-shaped grooves at the corners insure tight boxes. The 4¼x4¼x1⅞ is the most generally used. When filled with comb honey this size section will hold about a pound. Made of white basswood. Shipped flat in lots of 250, packed in corrugated paper box, and lots of 500 packed in wooden box.

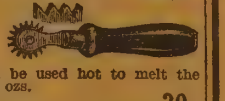
19 K 564B Section Honey Boxes, size 4¼x4¼x1⅞ ins. Shpg. wt., 18 lbs., box of 250. Price..... **$3.90**

19 K 565B Section Honey Boxes, size 4¼x4¼x1⅞ ins. Shpg. wt., 35 lbs., box of 500. Price..... **$7.50**

Wire Imbedder

An excellent device for imbedding the wires of frames into the sheets of foundation. The teeth are broad and blunt which does not weaken the foundation. Should be used hot to melt the foundation to the wire. Shipping weight, 6 ozs.

19 K 578 Price, each..... **30c**



Sting Proof Bee Gloves

Our bee gloves are made of heavy twilled cotton cloth mixture, which without oiling, waxing or painting are practically sting proof. They are half arm length and so designed to fit closely to the elbow. Furnished in three sizes listed below.

19 K 574 Small size. Shpg. wt., ¼ lb. Price, pair..... **95c**

19 K 575 Medium size. Shpg. wt., ½ lb. Price, pair..... **95c**

19 K 576 Large size. Shpg. wt., ¾ lb. Price, pair..... **95c**

Bee Veil

This veil is made of bronze wire of coarse mesh, will not catch nor tear on any obstruction. It is worn without a hat which makes it very cool in Summer. The top is made of muslin, gathered at the center, and the bottom is of the same material made in the form of a skirt which slips loosely around the shoulders. Shipping weight, 12 ozs.

19 K 569 Price, each..... **$1.20**

Steel Hive Tool

For use in scraping frames and prying them loose, as well as for separating supers and raising covers. The scraping end, being bent, fits the palm when the other end is used as a pry. Made of spring steel of good quality. Shipping weight, 7 ozs.

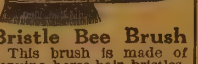
19 K 579 Price... **50c**

Foundation

Fine beeswax of the very best grade we can buy, clarified, sheeted and embossed; makes it extremely tough. Foundation not only starts the building properly, but in section honey the finished comb is evenly built and all will be uniform in size. Comes in sheets 4½x16¾. Packed in 1, 2 and 5 lb. boxes. Furnished in light weight for brood chambers and very thin foundation for supers and sections.

19 K 570 Light Brood Foundation, per lb. **82c**

19 K 571 Thin Super Foundation, per lb.. **88c**



Bristle Bee Brush

This brush is made of genuine horse-hair bristles, and is a very good brush for freeing combs of bees. It may be washed repeatedly and will wear a long time. Shipping weight, 7 ozs. Bristle bee brush with black bristles.

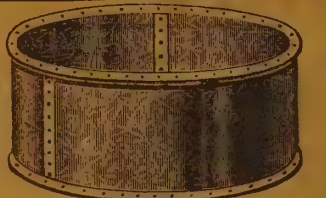
19 K 580 Price... **30c**

Entrance Feeders

Every beekeeper should have several entrance feeders as regular equipment. Our feeders can be used with any ordinary mason jar. The flow of fe... can be regulated by using ... at the opening. Suppli... out jars; with cap onl... wt., 8 ozs. Entra... with cap only.

19 K 577 Pric...

Steel Tanks, Stock Feed Cookers



Round Galvanized Steel Tanks

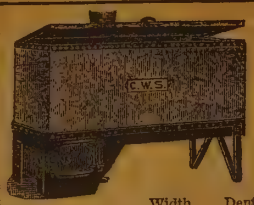
The construction of these tanks is so well known that they hardly need explanation; all joints or seams are made with our rust-proof lock seam, which effects a smooth, clean joint on the inside of the tank. Top and bottom flanges riveted with closely set rivets. All set up ready for use. Made of No. 20 U. S. gauge steel, heavily galvanized. If heavier gauge is desired add 30 per cent for No. 18 gauge and 60 per cent for No. 16 gauge. Pipe connections to sizes up to 1¼ inches at 40 cents each. Shipped from Michigan.

	Dia., Ft.	Hgt., Ft.	Cap., Bbls.	Wt., Lbs.	Price
19 K 519F	4	2	6	189	$7.85
19 K 520F	4	2½	7	220	8.98
19 K 521F	4	3	9	283	10.58
19 K 522F	4	4	12	378	13.20
19 K 523F	5	2	9½	298	10.73
19 K 524F	5	2½	12	378	11.97

Round Stock Feed Cookers

The jacket of this Cooker is made of 16-gauge, cold-rolled steel reinforced with a heavy iron band. The kettle is made of smooth grain cast iron with wide flange around the top. The door is extra large, measuring 12x15 inches — big enough to admit large piece of wood. Will burn either cobs or wood. Grate for burning coal extra. Shipped from factory in Ohio.

Number	Size, Gals.	Inside Diam. Kettle, Ins.	Shpg. Wt., Lbs.	Price, Complete
19 K 868H	15	20	110	$9.00
19 K 869H	18	23½	150	10.75
19 K 870H	26	26½	185	12.25
19 K 871H	36	28	210	15.00
19 K 872H	47	31	280	17.50
19 K 873H	64	35	325	22.10
19 K 874H	75	36	370	25.10
19 K 875H	Coal Grate.		30	5.70



Stock Feed Cooker

This Cooker is superior to a steamer because it doesn't need constant attention to be kept filled with water to prevent its burning or blowing up. No continued boiling to keep steam up. No water to be taken out at night to prevent freezing or bursting. The furnace and fire flue is of heavy sheet steel. Firebox has a heavy cast-iron grate and back wall. Every joint tight and fireproof; ash pit has bottom, making this cooker safe to set up indoors. Firebox extends across one end; heat passes to opposite end of furnace and returns before it reaches the pipe. Shipped from factory in Michigan.

	Width, Inches	Depth, Inches	Length, Feet	Capacity, Gallons	Weight, Pounds	Price
19 K 860F	24	12	4	60	175	$14.85
19 K 861F	24	18	4	90	195	15.18
19 K 862F	24	18	5	115	220	16.50
19 K 863F	28	18	6	160	275	20.62

Extra Pans for Boilers (Shipped from New York City)

19 K 864H	Gallons, 15, for 19 K 860F.	Weight, 20.	Price..... $4.22
19 K 865H	Gallons, 40, for 19 K 861F.	Weight, 28.	Price..... 5.83
19 K 866H	Gallons, 55, for 19 K 862F.	Weight, 36.	Price..... 6.98
19 K 867H	Gallons, 80, for 19 K 863F.	Weight, 49.	Price..... 10.58

Self-Sinking Tank Heater

The body of Steve is cast of close grain iron in one piece, without seams, joints or bolt holes and cannot leak. No solder to melt off should the water in the tank run low. Guaranteed not to crack or leak from heating or freezing, and to sink by its own weight. This eliminates anchors which often ruin the tank. Each heater furnished with a basket grate and ash pan, both independent from the stove or body. Rod hook is also provided for lifting these. Only a moment's work to remove ashes and keep fire in good burning condition. This heater is built right because it has proved superior as well as satisfactory to thousands of farmers. Shipped from New York City.

19 K 876H Self-Sinking Heater, 12-inch diam. 24 ins. high. Shpg. wt., 100 lbs. Price, each..... $8.18

19 K 877H Self-Sinking Heater, 14-inch diam., 24 inches high. Shpg. wt., 165 lbs. Price, each..... $10.75

Fruit Evaporators

Made of galvanized steel with double doors. Shipped from Indiana.

4½ ft. high, 30 ins. wide; 24 ins. deep; 16 wire cloth trays; 12x24 ins. take 22-in. wood. Capacity, 3 to 4 bushels per day. Wt., 175 lbs.

19 K 845F Price, each.... $25.50

19 K 846F 5 ft. 2 ins. high; 32 ins. wide; 20 trays. Capacity, 4 to 5 bushels per day. Shpg. wt., 225 lbs. Pr.. $32.00

19 K 847F 6½ ft. high; 36 ins. wide; 31 ins. deep; 26 trays. Takes 24-in. wood. Capacity, 6 to 8 bushels. Shpg. wt., 390 lbs. Price, each..... $49.50

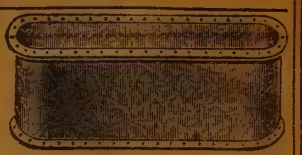
Cook Stove Evaporators

Galvanized steel. Used on cook stove or range. Has divided hot air current. Capacities are based on green apples.

19 K 843F About 25 ins. high, 26 ins. wide, 11 ins. deep. Has 6 galvanized wire trays, each 21x10½ ins. Capacity, 2 to 4 pecks a day. Shipped from Indiana. Shipping weight, 50 pounds. Price..... $7.15

19 K 849F About 31 inches high, 26 inches wide, 11 inches deep. Has 10 galvanized wire trays, 21x10½ inches. Capacity, 1 to 2 bushels per day. Shpg. wt., 65 lbs. Price..... $7.98

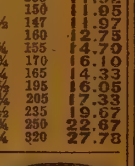
Round End Steel Tank



These tanks are made of 20-gauge U. S. steel, heavily galvanized; all joints and seams are made with rust-proof lock seam. Top is reinforced with heavy angle bar. If 18-gauge steel is wanted, add 30 per cent.; if 16-gauge is wanted, add 60 per cent. Pipe connections can be furnished in any size up to 1¼ inch at 40c each. Shipped from Michigan.

	Lgt., Feet	Wth., Feet	Ht., Feet	Cap., Gals.	Wt., Lbs	Price
19 K 1500F	4	2	1	47	55	$5.53
19 K 1501F	6	2	1	80	80	5.90
19 K 1502F	8	2	1	110	100	8.10
				Bbls.		
19 K 1503F	4	2	2	3	61	5.50
19 K 1504F	6	2	2	4½	90	8.90
19 K 1505F	8	2	2	6¾	120	10.20
19 K 1506F	8	2	2½	8	147	11.87
19 K 1507F	8	2½	2	8	135	11.92
19 K 1508F	8	2¼	2½	10	150	11.95
19 K 1509F	8	3	2	9½	147	11.97
19 K 1510F	8	3	2½	12	160	12.75
19 K 1511F	8	4	2	12¾	155	14.70
19 K 1512F	8	4	2½	15¾	170	16.10
19 K 1513F	10	3	2	12¾	165	14.33
19 K 1514F	10	3	2½	15½	195	16.05
19 K 1515F	10	4	2	16¾	205	17.33
19 K 1516F	10	4	2½	20½	235	19.67
19 K 1517F	10	6	2	23¾	250	22.67
19 K 1518F	16	4	2	27¾	320	27.78

Gasoline Storage Tank



Made of 20-gauge galvanized steel with lock seams well soldered. Fitted with screw cap on the top filling and brass faucet on side near the bottom for drawing off the contents. Will outlast two or three of the cheap painted tanks. Shipped from Michigan. Outside measurements.

	Dia., Ins.	Hgt., Ins.	Cap., Gals.	Wt., Lbs.	Price
19 K 533F	18	30	32	28	$4.65
19 K 534F	24	30	58	40	5.35
19 K 535F	24	36	70	48	6.55
19 K 536F	24	30	117	60	8.35
19 K 537F	34	36	140	70	9.15
19 K 538F	34	42	165	75	11.45
19 K 540F	Lock Faucet.....				1.80

Iron Seats

This is a comfortable, medium seat, 16½ inches wide and 14½ inches long. Reinforced at the bottom, perforated and properly shaped, it makes continuous riding easy. The right seat for an all-day job on the plow or cultivator. Designed to fit on all ordinary implements and machinery. Shipping weight, 5 pounds.

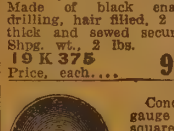
19 K 2263B Price, each..... 58c

Seat Cushion

Makes riding on plow seats more comfortable and less fatiguing. Cushion is shaped to fit seat of any farm machine. Made of black enamel drilling, hair filled, 2 ins. thick and sewed securely. Shpg. wt., 2 lbs.

19 K 375 Price, each.... 92c

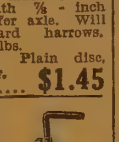
Harrow Discs



Concave discs made of 10-gauge steel with ⅞ - inch square opening for axle. Will fit all standard harrows. Shpg. wt., 10 lbs.

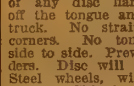
19 K 2250A Plain disc, 16-inch diameter. Price, each..... $1.45

Tongue Truck



Makes a tongueless disc out of any disc harrow by sawing off the tongue and attaching the truck. No strain on team on corners. No tongue lash from side to side. Prevents sore shoulders. Disc will do better work. Steel wheels, with 2 hand oil cups. Shipping weight, 65 pounds.

19 K 2251D Each.. $7.15

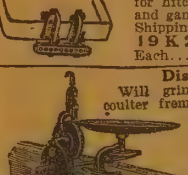


Frame Hitch Attachment

for hitching eveners to sulky and gang plows. With bolts. Shipping weight, 9 pounds.

19 K 2264 Each..... $2.85

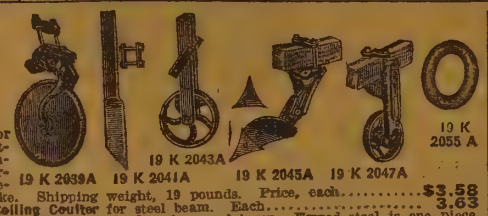
Disc Grinder



Will grind any size disc or coulter from 12 to 24 inches in diameter with any size hole. When in position, the disc is revolved while being held firmly against the grinding wheel by a steel roller. This grinds the disc to a perfect bevel edge. Shpg. wt., 17 lbs.

19 K 2255A Price, each..... $6.25

Walking Plow Attachments



19 K 2039A 19 K 2041A 19 K 2043A 19 K 2045A 19 K 2047A 19 K 2055 A

19 K 2039A **Rolling Coulter** for wood beam with attachment for fastening. Blade of carbon steel with malleables iron swivel yoke. Shipping weight, 19 pounds. Price, each..... $3.58

19 K 2040A **Rolling Coulter** for steel beam. Each..... 3.63

19 K 2041A **Standing Knife Coulter** for wood beam. Forged steel is one piece. Shpg. wt., 8 lbs. Each, with clamp..... 80c

19 K 2042A **Standing Coulter** for steel beam. Price, each, with clamp... 83c

19 K 2043A **Plow Wheel**, 7½-inch diameter, for wood beam. Insures smoother plowing and saves wear on the share. Shpg. wt., 9 lbs. Each..... 98c

19 K 2044A **Plow Wheel** for steel beam. Each..... 95c

19 K 2045A **Buckeye Jointer** for wood or steel beams, right hand only. Reversible steel point has three separate wearing points. Shpg. wt., 15 lbs. Ea..... $2.50

19 K 2046A Extra points for Buckeye Jointer. Shpg. wt., ¾ lb. Ea..... 38c

19 K 2047A **Malleable Iron Wheel** to be set on wood beam plow when used with two or three horses. Shpg. wt., 8¾ lbs. Each..... $1.68

19 K 2055A **Plow Rings.** Malleable iron; 1½-in. diameter; 3-in. long; inside width, 1⅜ inches. Shpg. wt., ½ lb. Each..... 9c

Clevises for Steel and Wood Beams

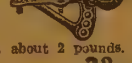
Steel beam clevises for 1-inch beam, 3⅜ inches center to center of beam holes; 11 holes in cross. Brace pins omitted unless ordered specially. Shipping weight, 6½ pounds.

19 K 2048 Price, each..... 73c

Malleable iron plow clevises, 3 inches center of wrench to center of pin; length of beam clevis, 6½ inches; 6 holes. Shipping weight, about 2 pounds.

19 K 2049 Price, each..... 28c

Wood Beam Clevises



Malleable iron clevises for wood beams. Shpg. wt., 5 lbs.

19 K 2050 Beam, 2¾ ins.; center to center of beam holes, 3⅜ ins.; 8 holes in cross clevis. Shpg. wt., 4½ lbs. Each..... 48c

19 K 2051 Beam, 2½ ins.; center to center of beam holes, 4⅜ ins.; 8 holes in cross clevis. Shpg. wt., 5 lbs. Each..... 60c

19 K 2052 Beam, 3 ins.; center to center of beam holes, 4¾ ins.; 10 holes in cross clevis. Shpg. wt., 7 lbs. Each..... 74c

Beet Weeders

Excellent Weeding Tools

An up - to - date Weeder for Richland Cultivators. Two or more can be attached to any of the different styles of 5-tooth cultivators. Shipping weight, 5 pounds.

19 K 2216A Price, per pair 83c

Harrow Teeth

Square spike teeth, headed for use in wood or U-bar steel frame harrows. Shpg. wt., 1 lb.

19 K 2260 9/16x8 ins. Ea. 12c

Plow Handles

These handles are made of clear, air-seasoned oak with hand holds finished smooth. Balance a rough finish. Size, 1¼x2½ ins. Entire length, including bend, 5 feet. Shpg. wt., each, 4 lbs.

19 K 2053B Straight handles... 43c

19 K 2054B Single bend..... 48c

Spike-Tooth Harrow Clips

Malleable iron, will work on any U-bar harrow, for 9/16-inch teeth. Shpg. wt., 5 ozs.

19 K 2261 For 9/16-in. tooth. Price, each..... 13c

Steel Barrels

20-gauge steel; black Japan. Opening for filling, 1¼ ins. Furnished with brass ⅜-in. faucet for drawing off.

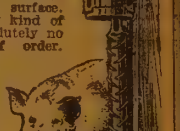
19 K 1070C Cap., gals., 50; diam., ins., 24; hgt., ins., 30; gauge, 20; shpg. wt., lbs., 45. Price..... $6.98

19 K 1071H Cap., gals., 30; diam., ins., 18; hgt., ins., 30; gauge, 20; shpg wt., lbs., 30. Price..... $5.98

Hog Greaser

Here's a first class Hog Greaser. It oils a wide area on the hog's back instead of a narrow strip. Corrugations distribute oil over the entire surface. Greaser works with any kind of oil or dip and has absolutely no valves to get out of order. Vacuum reservoir works by gravity. The reservoir is made of bar and drip of cast heavy sheet steel with iron. All parts are securely bolted to a hardwood back with holes bored for attaching. Shpg. wt., 18 lbs.

19 K 625B $2.95



Sanitary Cast Iron Hog Troughs

Made of gray iron that will last a lifetime. Furnished with cast extensions on the bottom, slotted so that it may be fastened permanently to the floor. The sides taper, with 2-inch flat spark on the bottom. Have no corners or cracks for disease germs to lodge in and multiply. The sloping sides prevent breakage in case of freezing.

	Length, Feet	Weight, Pounds	Price
19 K 626B	2	30	$1.65
19 K 627B	5	50	3.20
19 K 628B	6	70	4.75

Galv. Steel Hog Troughs

Made of 20-gauge galvanized steel in 3 sizes. The largest sizes are suited for from 3 to 6 hogs, 5 inches deep, 10 inches wide. They will not rust. Neither will frozen water damage them. Easily kept clean, and will last much longer than a wooden trough. Shipped from New York City.

19 K 629B Length, 2 feet. Shpg. wt., 5 pounds. Price, each.. 98c

19 K 630B Length, 4 feet. Shpg. wt., 10 lbs. Price, each..... $1.65

19 K 631B Length, 6 feet. Shpg. wt., 15 lbs. Price, each..... $2.20

Customer Pays Delivery Charges on Every Article on This Page

CHARLES WILLIAM STORES New York City

Hay Carrier Outfits

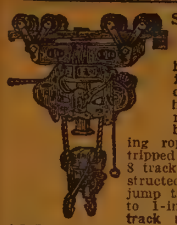
Furnished with Steel Track and Choice of Carrier

Rig up your barn with a Richland Hay Carrier Outfit. Save yourself time, when time is precious in the haying season. Outfits listed below are furnished with steel track only. We also furnish outfits for wood track but do not furnish track. If you desire a Four or Six Tine Grapple Fork instead of Harpoon Fork listed, add difference of price listed below. Every outfit furnished with 1 Knot Passing Pulley, 2 Hay Pulleys, 4 Floor Hooks and necessary rope.

When Ordering Specify Carrier Outfit Wanted and Length of Track. The Necessary Rope, Pulleys and Parts Will be Furnished.					Shpg. wt., for 19 K 315A and 19 K 316A	19 K 315A With Double Harpoon Steel Fork and 19 K 314A Carrier	19 K 316A 6-ft. Steel Slings and three Steel Track and 19 K 312A Carrier	19 K 317A For Wood Track with Double Harpoon Fork; Track Not Furnished	Shpg. Wt. for 19 K 317A
Length of Track	Carrier for Rope, ⅜-in.	Trip Rope, ¾-in.	Rafter Brackets	Hanging Hooks	Lbs			19 K 310A Carrier	Shpg. Wt., Lbs.
30 ft.	100 ft.	40 ft.	9	9	175	$21.95	$24.95	$16.75	115
35 ft.	110 ft.	45 ft.	11	11	193	23.60	26.60	17.65	123
40 ft.	120 ft.	50 ft.	13	13	211	24.85	28.45	18.35	131
45 ft.	130 ft.	55 ft.	15	15	229	26.30	29.90	19.15	139
50 ft.	140 ft.	60 ft.	17	17	247	28.75	41.85	19.95	147
55 ft.	150 ft.	65 ft.	19	19	265	29.80	43.65	20.65	155
60 ft.	160 ft.	70 ft.	21	21	283	31.65	45.35	21.25	136

For Four Tine Grapple Fork instead of Harpoon **$5.00** extra. For Six Tine Grapple Fork instead of Harpoon **$6.75** extra.

Swivel Sling Hay Carrier

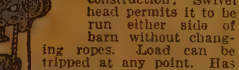


Well made of the high grade malleable iron. Of simple construction; Swivel head permits it to be run either side of barn without changing ropes. Load can be tripped at any point. Has 8 track wheels and so constructed that it cannot jump track. Will take ¾ to 1-inch rope. Rope or track not furnished.

19 K 312 Carrier for Steel Track. Shpg. wt., 66 lbs. Price..... **$10.25**

19 K 313 Carrier for Wood Track. Shpg. wt., 75 lbs. Price..... **$10.45**

Wagon Slings



Made for 18 ft. rack; 6 ft. wide; 4 spreaders. Can be shortened. Requires sling pulley **19 K 311** on all carriers except **19 K 312** or **19 K 313**. Shpg. wt., 25 lbs.

19 K 330B Price..... **$3.85**

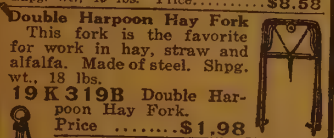
Four and Six Tine Grapple Hooks

Sometimes preferred for short hay, alfalfa and loose straw. Made of steel.

19 K 320B Four Tine Grapple Fork. Shpg. wt., 36 lbs. Price..... **$6.98**

19 K 321B Six Tine Grapple Fork. Shpg. wt., 49 lbs. Price..... **$8.58**

Double Harpoon Hay Fork



This fork is the favorite for work in hay, straw and alfalfa. Made of steel. Shpg. wt., 18 lbs.

19 K 319B Double Harpoon Hay Fork. Price **$1.98**

Single Harpoon Hay Fork

Improved Single Harpoon Fork. Made of steel. A good general purpose fork. Shpg. wt., 10 lbs.

19 K 318B Price. **$2.50**

Carrier Track

Made of high grade steel with couplings in lengths of 5 and 10 ft. only. Shpg. wt., 1 lb. to the foot.

19 K 322B 5 ft. Length with couplings and bolts. Price..... **95c**

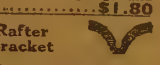
19 K 323B 10 ft. Length with couplings and bolts. Price..... **$1.80**

Hay Rack Fixture

Malleable iron. No holes to bore in timber. Shpg. wt., 18 lbs.

19 K 331 Price..... **$5.50**

Rafter Bracket



For supporting wood or steel track from rafters. Malleable iron. Shpg. wt., 6 ozs.

19 K 332 Each **6c**

"Dandy" Sickle and Tool Grinder

Well-built, smooth-running, open-gear combination Sickle and Tool Grinder. Gears and pinions with broad faces mesh perfectly. Has packed bearings for oiling. Can be clamped on a bench or on the rim of a mowing machine wheel. The Sickle Bar Holder is so constructed that each section can be ground with a perfect bevel from heel to point. Shipping weight, 13 pounds.

19 K 406A Price..... **$3.85**

Rapid Cut Hay Knife

Serrated Edge Hay Knife. Steel, tempered and sharpened. Adjustable Handles. Shipping weight, 6 lbs.

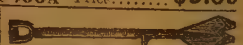
19 K 360B Price, ea. **$1.10**

Corn Knife

Forged steel; hardened and tempered. Hardwood handle. Shipping weight, 13 ounces.

19K 362B Price. **45c**

Upright Hay Knife



Reinforced handle; removable mower section. Foot prong for forcing cut. Shipping weight, 6 pounds.

19 K 361B Price.. **$1.20**

Double Swivel Hay Carrier

Made of best malleable iron. Of simplest construction; only 2 pieces in lock. Very positive. Carries hay in either direction by changing end pulley. Works satisfactorily in barn loading from end. Furnished complete with pulley but without rope or track. Use ⅝ or ¾-in. rope.

19 K 314 Carrier for Steel Track. Shpg. wt., 29 lbs. Price..... **$6.30**

19 K 310 Carrier for Wood Track. Shpg. wt., 31 lbs. Price..... **$6.35**

19 K 311 Sling Pulley for above carrier. Shpg. wt., 11¼ lbs. Price..... **$2.70**

Knot Passing Pulley

Ribbed malleable frame, hollow knot passing, ¾-in. bushing; 5½-in. maple sheave. For rope up to 1-in. in dia. Shpg. wt., 3 pounds.

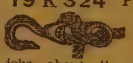
19 K 325 Price.... **60c**

Hay Pulley

Large hollow pin, self-oiling frame, with 6-in. hard maple sheave. Heavy malleable swivel eye. Shipping weight, 3 pounds.

19 K 324 Price.. **49c**

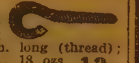
Swivel Rope Hitch



A handy article for haying and many other jobs about the farm. Saves time and trouble of tying knots. Releases instantly. Shpg. wt., 1½ pounds.

19 K 327 Price..... **24c**

Pulley Hooks



Steel, hooks to screw into floor or post for holding pulley. ¾ in. dia.; 2½ in. long (thread); over all, 7 in. Shpg. wt., 18 ozs.

19 K 326 Price..... **12c**

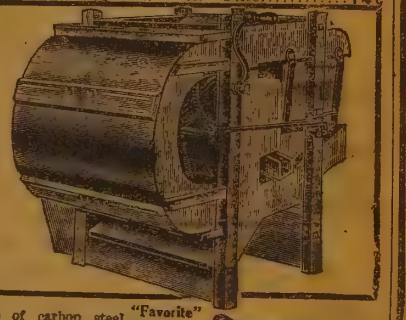
Hanging Hooks

For use with wood or steel tracks.

19 K 333 For wood track. Shpg. wt., 1 lb. Price..... **12c**

19 K 334 For steel track. Shpg. wt., 1 lb. Price..... **14c**

Richland Fanning Mill



Our Richland Fanning Mill is a high grade mill in every respect. It will do excellent work in cleaning, grading and separating **ALL KINDS** of grain, seed, clover, timothy, flax, orchard grass, hemp, peas,—also beans, rice, coffee and peanuts. Please note that this is the only mill built to clean Lespedeza seed or Japanese Clover. Not only is the Richland adapted to all kinds of cleaning, grading and separating—but it has all the modern features that will do these jobs with a speed and thoroughness that will please you. Following are its important features and advantages:

1. It has a **GREATER** capacity over most other mills in cleaning all kinds of grains and seeds.
2. It has the improved plan of hanging the shoe upon strong iron strap hinged hangers, thus preventing frequent breakage.
3. The Drum or Head is securely fastened to the posts by wooden cleats **MORTISED** into the posts, and held by screws. The drum being covered with sheet steel does away with the chance of splitting or checking as thin wood will do, adding increased strength and durability to the mill, and rendering it less liable to breakage when shipped in "knocked down" shape.
4. It has the great advantage of a **SCREW** to raise or lower the slide of the hopper with ease in regulating the feed. The gearing is placed **INSIDE** of the mill out of the way.
5. We **GUARANTEE** these mills to give entire satisfaction. At our low direct selling price, we do not believe you could get better **VALUE** for the money anywhere.

19 K 351C No. 1 Richland Fanning Mill. Capacity, 40-60 Bushels per hour. Width of Sieves, 24 inches. Width of Mill, 2 ft. 8 ins. Height of Mill, 3 ft. Shpg. wt., 170 pounds. Price, complete..... **$28.00**

19 K 352C No. 2 Richland Fanning Mill. Capacity, 50-80 Bushels per hour. Width of Sieves, 30 inches. Width of Mill, 3 ft. 2 ins. Height of Mill, 3 ft. Shpg. wt., 185 lbs. Price, complete..... **$35.00**

Cluster Ropes

An excellent means for hitching in small, second growth timber. Made of best steel wire rope, each of 4 being cut 10 feet long, and babbitted securely in a cluster anchor. Weighs only one-fourth that of chains, but 100 per cent stronger.

19 K 932B ½-inch rope. Shpg. wt., 50 lbs. Price, set..... **$16.80**

19 K 933B ⅝-inch rope. Shipping weight, 70 pounds. Price, set..... **$20.50**

19 K 934B ¾-inch rope. Shipping weight, 100 pounds. Price, set..... **$25.00**

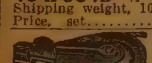
Anchor Ropes

Length, 25 Feet

With them machine can be anchored any place. For pulling scattered timber, old stumps, willow bunches, and for moving buildings. Steel rope with Patent Rope Hook and Loop Coupler attached.

Number	Rope Size Shpg. Ins.	Wt.	Price
19 K 922B	⅝	36	**$8.15**
19 K 923B	¾	50	**10.50**
19 K 924B	⅞	58	**12.95**
19 K 925B	1	72	**16.20**

Snatch Blocks



Are interchangeable. Each Block is complete with hitch rope and hook.

19 K 926B For use with ⅝-in. rope; with 10-foot ⅝-in. hitch rope. Shpg. wt., 50 lbs. Price..... **$13.15**

19 K 927B For use with ¾-inch rope, with 10-foot ¾-inch hitch rope. Wt., 70 lbs. Price..... **$18.35**

19 K 928B For use with ⅞-inch rope; with 15-foot ⅞-inch hitch rope. Shpg. wt., 90 lbs. Price.. **$23.80**

Loop Coupler and Hook

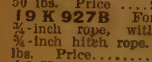
The only practical coupling for steel rope. Attached or detached instantly.

Couplings.	Rope Size Shpg. Ins.	Wt.	Price
19 K 907	⅛	4	**$1.35**
19 K 908	¼	6	**1.50**
19 K 909	⅜	9	**1.75**
19 K 910	⅞	12	**2.00**
19 K 911	1	15	**2.50**

Hooks for Size of Shpg. Above Rope Wt. Price

19 K 912	⅛	4	**$1.25**
19 K 913	¼	6	**1.50**
19 K 914	⅜	9	**1.75**
19 K 915	⅞	12	**2.00**
19 K 916	1	15	**2.50**

Rope Shortener



For use on straight pull rope to do away with winding slack rope on drum.

19K929 For rope up to ⅝-in. Wt., 12 lbs. Pr. **$3.60**

19 K 930 For rope up to ¾-inch. Wt., 18 lbs. Price, each..... **$5.15**

19 K 931 For rope up to ⅞-inch. Wt., 30 lbs. Price, each..... **$5.95**

Stump Pullers and Accessories Shipped from Minnesota

Stump Pullers

Improved models. Have V-Drums, ratchet pawls, and sweep lift for throwing machine in and out of gear. Is low down, insuring maximum leverage. Made of materials offering resistance 25 per cent in excess of best steel rope made.

19 K 940F This machine is suited for use by hand, or with one horse. Pulls trees, stumps, grubs and brush up to 4 ins. through. Comes complete with 5-foot anchor loop, 50 feet of ½-inch pull rope, automatic pawl and improved sweep lift. Shpg. wt., 175 lbs. Price. **$28.87**

19 K 941F For one horse on a 10-foot sweep. Pulls trees 8 ins. and 10 ins. through. Complete with 6-foot anchor loop, 50 feet of ⅝-in. pull rope, automatic pawl and improved sweep lift. Shpg. wt., 275 lbs... **$37.45**

19 K 942F For one or two horses on a 12-foot sweep. Pulls trees, 14 and 16 ins. through. Complete with 25-ft. anchor rope, 50 feet of ¾-in. pull rope, automatic pawl and improved sweep lift. Shpg. wt., 400 lbs. **$51.60**

19 K 943F For one or two horses on a 14-foot sweep. Pulls trees up to 24 ins. through. Complete with 25-ft. anchor rope, and 75 feet of ¾-in. pull rope automatic pawl and improved sweep lift. Shpg. wt., 550 lbs.. **$69.95**

19 K 944F For one or two horses on a 16-foot sweep. Pulls trees up to 36 ins. through. Complete with 25-ft. anchor rope, 75 feet of ⅞-in. pull rope, automatic pawl and improved sweep lift. Shpg. wt., 725 lbs... **$92.87**

Steel Wire Rope

Number	Size Rope, Inches	Shpg. Wt., Per Ft. (Lbs.)	Price, Per Foot
19 K 917B	½	½	**13c**
19 K 918B	⅝	1	**18c**
19 K 919B	¾	1¼	**28c**
19 K 920B	⅞	1½	**32c**
19 K 921B	1	2	**45c**

"Favorite" Scraper

Made of carbon steel ⅛ inch thick. The front, or cutting edge, is rounded so that it enters the ground easily. Has two 1½-in. steel runners which protect the bottom and make it run lighter than a plain bottom scraper. The runners are riveted on, which hold perfectly until runners are worn out. Balls are forged from 1½-inch steel, with swivel draw link. Ball on the largest size is 9-16 in. thick, and on smaller sizes ½ in. Shipped from N. Y. City.

19 K 1005D Size, No. 3; Capacity, 3 cu. ft.; length, 21½ ins. Shpg. wt., 66 lbs. Price..... **$8.35**

19 K 1006D Size, No. 2; Capacity, 5 cu. ft.; length, 32 ins. Shpg. wt., 88 lbs. Price..... **$8.95**

19 K 1007D Size, No. 1: Capacity, 7 cu. ft.; length, 34 ins. Shpg. wt., 100 lbs. Price..... **$9.60**

Cast Iron Boat Head

Made in one single heavy casting. Has shoulder to fit edge of three 10-inch planks and holes for bolting them fast. Attach bottom boards and bolt securely. Attach side strips, end piece and stone boat is complete. Shpg. wt., 70 lbs.

19 K 1003B Price..... **$4.10**

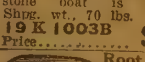
Pressed Steel Boat Head

With this device the farmer can make his own stone boat from any sort of old planks. Only a saw, brace and bit are needed

19 K 1000B 34 ins. wide with bolts, steel. Shpg. wt., 30 lbs. Price..... **$3.60**

19 K 1001B 40 ins. wide, with bolts, steel. Shpg. wt., 36 lbs. Price..... **$3.90**

Root Hooks

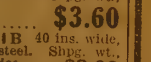


Designed for light work in brush and grubs. Especially suited for our 19 K 940F and 19 K 941F Pullers. Made only in two sizes of high grade material. Shpg. wt., 32 lbs.

19 K 905B Price..... **$7.85**

19 K 906B For heavier work. Shpg. wt., 42 pounds. Price **$9.90**

Twin Root Hooks

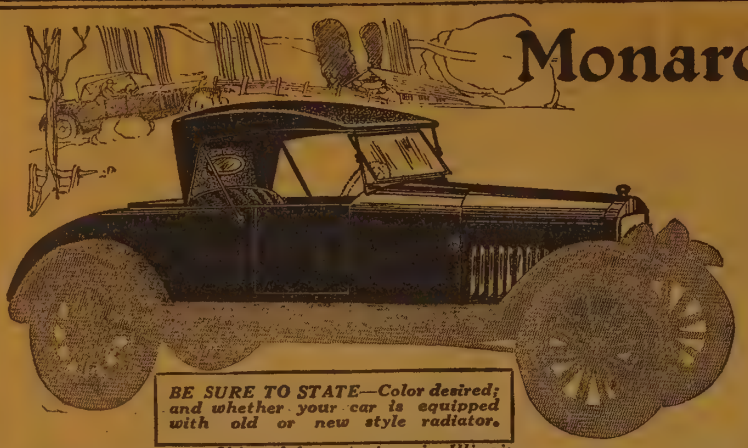


Shipped from Minn.

Designed for clearing land of blind stumps, stool grubs and underground growths, or where it is not possible to fasten a rope. Can be used with all Richland Pullers. Shpg. wt., 86 lbs.

19K935F Ea. **$20.00**

Monarch Speed Body



BE SURE TO STATE—Color desired; and whether your car is equipped with old or new style radiator.

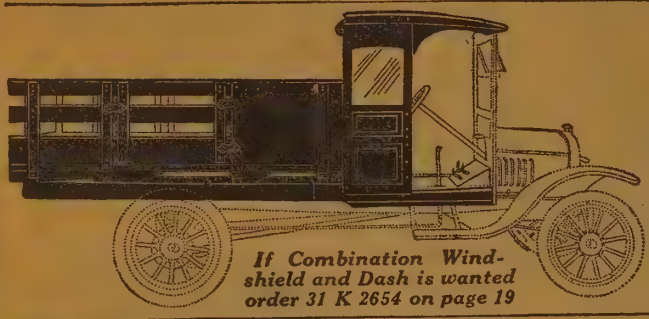
Shipped from factory in Illinois

THE Monarch is proving a big favorite with Ford owners all over the country. It is an unusually high grade body that has the appearance when mounted on a Ford chassis of being a much larger and more massive body than it actually is. It has smart snappy lines and is as handsome a speed body as there is on the market regardless of price. It has a high, racy-type cowl and provides more seat and leg room than is usually found in special bodies for the Ford car. There is a door on right hand side of body equipped with ventilating brackets that allows door to be left partly open while driving. This body is built of the very best materials and is substantially assembled. Fits the regular Ford chassis, using regular Ford fenders and running boards. Body may also be used without fenders.

FRAME: Strongly built of selected wood. Securely fastened and bound with steel reinforcements at every joint. **UPHOLSTERY:** High grade imitation leather, French plaited and padded with soft material over high grade steel coil springs. **HOOD AND SHELL:** Hood and shell made from 20-gauge auto steel and finished in baked black enamel. Fits the regular Ford fenders and running boards exactly. **FLOOR:** Opening provided to allow access to battery which must be relocated in rear of chassis. Openings provided with wear plates for brake lever and pedals. We do not provide dash. Use regular Ford dash. Also regular Ford gasoline tank. Convenient door on right side of body equipped with ventilating bracket. **TOP:** One-man type; covered with rubberized topping material. 6x9-inch oval glass in rear curtain. Side curtains with large windows completely enclose seat. **WINDSHIELD:** One-piece, clear vision, ventilating type with rubber flap at bottom to keep out rain and snow. **INSTRUMENT BOARD:** Well made board of sufficient size to accommodate speedometer, clock and regular starter instruments. **PAINTING:** Body painted dark red or dark green. State **WHICH.** Hood and shell in black enamel.

DIMENSIONS: Length of body over all, 122 inches; length from radiator to rear of cowl, 44 inches; length from back of seat to end of boot, 40 inches; length from dash to back of seat, 54 inches; height of dash from floor, 21 inches; height of cowl from floor, 23¾ inches; height of sides, 17 inches; height of back, 22 inches; width of seat, inside of cushion, 36 ins.; size of boot, 36x44x16 ins.; size of door, 16x16 ins.

31 K 2600F	Speed Body only. Shipping weight, 350 pounds. Price.....	**$75.65**
31 K 2601F	Body with Windshield. Shipping weight, 360 pounds. Price.....	**$86.65**
31 K 2602F	Body complete with Windshield and Top. Shpg. wt., 395 lbs. Price...	**104.50**



If Combination Windshield and Dash is wanted order 31 K 2654 on page 19

Monarch Stake Body with Open Cab

An Exceptionally Well Constructed Body for the One-Ton Truck Ford Chassis

For light trucking, farm produce hauling, or commercial purposes, this body is ideal when used with the Ford extended chassis. The side racks can be removed for loading and unloading from the side. The cab furnishes ample protection in bad weather. And the body itself is well built for rough usage. The floor is fully reinforced and protected with band iron straps. The loading space is ample, measuring 96 inches long, 60 inches wide—and with side racks 27 inches high. The cab, as pictured, is 42 inches wide, furnished with imitation leather cushion and back, seat box, gun stocks, and curtain in rear. Or, if you desire, we can furnish without cab. The body is painted attractively in black, and sold at a much lower price than is sold elsewhere. You will be well pleased with this body. If not, return it at our expense. Shipped "knocked down" from **FACTORY IN EASTERN PENNSYLVANIA.** All necessary bolts for attaching furnished. Approximate weight, 700 pounds. **$129.80**

31 K 2614F	Stake Body with Open Cab. Shipping weight, 950 pounds.	
31 K 2615F	Stake Body without Cab. Shpg. wt., 600 lbs. Price.....	**$82.65**
31 K 2655F	Front Side Curtains at driver's seat. Shipping. wt., 10 pounds. Price, per pair.....	**6.30**

Open Cab Only

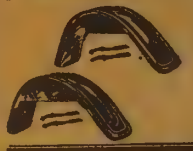
This cab is furnished with seat box, gun stock and curtain on rear. Imitation leather trimmings. Shipping weight, 375 pounds. Shipped from Pennsylvania. Front Side Curtains extra. Listed below. Windshield and Dash listed on page 19. **$48.65**

31 K 2608F	Open Cab only. Price.....	
31 K 2655F	Front Side Curtains at driver's seat. Shpg. wt., 10 lbs. Price, per pair.....	**$6.30**

Closed Cab Only

Suitable for all weather conditions. Roll up curtain with lights in rear. Full length doors. Doors on both sides to open. Drop sash in doors. Stationary sash at driver's seat. Upper half of windshield adjustable. Windshield is equipped with plate glass. Tool box on each side of seat. Round front top. Imitation leather cushion and back. Shipped from Pennsylvania. Shipping weight, 400 pounds. **$74.25**

31 K 2607F Price, body complete.....



Rear Fenders for Commercial Trucks

Used on Ford Extended 1-Ton Chassis

These fenders will fit 22x4½ inch pneumatic tires or solid tires. Made of heavy gauge, full finished steel, coated with black enamel, baked on. Are of very rigid construction; skirt reinforced. Width at base, 39 ins.; height, 20 ins. Shpg. wt., 40 pounds per pair. Shipped from New York City. **$5.45**

31 K 2658B Price, per pair.....

Crown Rear Fenders for Commercial Ford Bodies

For Model T Ford Cars

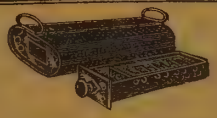
The well known Crown Fenders. Greatly increase the general appearance of your car besides the protection they afford. Well made of 20-gauge steel finished in glossy black enamel. For use on Model T Ford Cars. Shipping weight, 50 pounds per pair. Shipped from New York City. **$4.98**

31 K 2656B Price, per pair.....

Monarch Travois Bob Sled

For general farm use. Runs very easy on unbroken roads and deep snow. Built entirely of thoroughly dry Northern hardwood and firmly bolted, it is the strongest sled of this type known. Broad runners and full steel circle. Track, 37 inches. 14 inches from bottom of shoe to top of raves. Striped, painted and varnished. Thoroughly ironed and braced for hard wear.

	Length of Runner	Length of Cast Shoe	Size of Runner	Size of Beams	Size of Bolsters	Size of Raves	Shpg. Wt., Lbs.	Price
			Inches	Inches	Inches	Inches		
31 K 2717D	6ft	4 ft. 3 in.	4x2	3	4x4½	1¼x6	425	**$52.25**



Lehman Carriage Heater

An attractive, oval shape carriage heater, carpet covered. Length, 14 ins. Can be used with large bricks or cakettes as preferred. Shpg. wt., 6 pounds.

31 K 1430 Lehman Carriage Heater. Price, each..... **$2.25**

Carriage Heater Coal

No smoke, odor, flame or soot. Extinguished and relighted any time.

31 K 1436 Large. Wt., box, 7¾ lbs. Burns 10 to 15 hrs., according to draft. Box of 12 bricks. **95c**

Price.....

31 K 1435 Small. Wt., box, 6 lbs. Burns 5-10 hrs. Box of 20 bricks..... **95c**

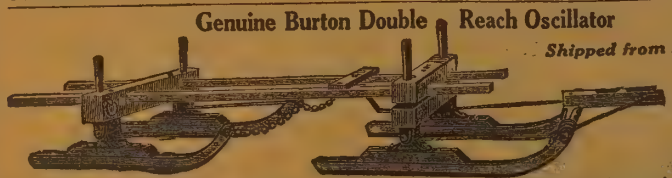
Lehman Carriage Heater

Many prefer this heater. Has steel ends. Is 14 inches long, covered with green Brussels carpet. Asbestos lined. Has adjustable ventilators. Can be used with large bricks or cakettes as preferred. Shpg. wt. 6 lbs.

31 K 1431 Washington Carriage Heater. Price, each..... **$2.25**

Genuine Burton Double Reach Oscillator

Shipped from Factory in Ohio



Iron knuckles on each runner work independently, making this an ideal sled for rough country. Double reach—load cannot upset. Heavy cast shoes full width of runners, with 1-inch center rib, made in 2 pieces—no chance of breaking these. Equipped with logging rings and chain holders. Track, 3 feet 1 inch. A thoroughly well constructed sled to be used in connection with farm wagon gear. All runners ironed top and bottom. Painted, striped and varnished.

	Length of Runner	Length of Cast Shoe	Size of Runner	Size Front Beam	Size Front Bolster	Size Rear Bunks	Shpg. Wt., Lbs.	Price
			Inches	Inches	Inches	Inches		
31 K 2716D	5 ft.	3 ft. 9 in.	5x2	5x5½	5x5½	5½x7	550	**$39.85**

Michigan Cast Knee Oscillator

Built in two sizes, these sleds have a wide range of usefulness, from general team work and farming to the heaviest logging. The runners being long and oscillating, make it adaptable to rough country. The knuckles and shoes are of very heavy cast iron, being practically unbreakable. The wood parts are made of thoroughly dry Northern hardwoods.

	Length of Runner	Length of Cast Shoe	Size of Runner	Size of Beams	Size of Bolsters	Shpg. Wt., Lbs.	Price
			Inches	Inches	Inches		
31 K 2712D	5 ft.	4 ft. 3 in.	2x5	4x6	4x4½	400	**$37.40**
31 K 2713D	6 ft.	5 ft. 3 in.	2x5	4x6	4x4½	450	**39.90**

Newport Speed Body

THIS is one of the best of light speed bodies for the Ford. It is of unusually thorough construction, employing high grade materials, careful design and excellence of workmanship. Many things have been taken into consideration in the manufacture of the Newport. First: racy design. The driver of a low priced automobile deserves all the style he can get, especially in an older model car. Second: Comfort. The position which the driver is able to assume is easy and comfortable. The padded back and the carefully built cushion on a foundation of five strips of coiled springs invite relaxation. Third: Economy. We do not believe there are any better built bodies on the market for the Ford than the Newport or Monarch. The wood and steel used in the construction is high grade throughout. Many customers say these are the best built speed bodies yet seen for the Ford. And yet we are able to afford a real economy in price. Furthermore, it is so simplified that an inexperienced person can easily attach it to the chassis.

Specifications

Steel: 20 gauge auto body stock, rolled to a smooth finish. **Wood:** Auto body stock, sill 2x6 ins.; floor boards babbitted into sills, thoroughly reinforced. **Upholstery:** Good grade imitation leather well stuffed. Cushion built on a foundation of 15 steel coiled springs. Gasoline tank, radiator, dash and body brackets not furnished. Sills drilled to bolt to chassis brackets. Use Ford dash and gasoline tank. **Length** over all, 119 inches. Length from dash to back of seat, 54 inches. Cushion, 34 inches wide, 17 inches deep; height from floor at front 8 inches; at rear, 4 inches. Rear compartment very large capacity; height of cowl, 25 inches; height of back of seat, 23 inches. Door, if ordered, on right side, size 14 inches high, 16 inches wide. **COLORS:** Red, Green, Blue or Gray. State WHICH.

BE SURE TO STATE Color; whether car is equipped with old or new style radiator and if door is desired

Shipped from factory in Illinois

19 K 2619F Newport Speed Body Only. Shipping weight, 350 pounds. Price..... **$49.95**

19 K 2620F Newport Body, with windshield. Shpg. wt., 360 lbs. Price..... **$62.80**

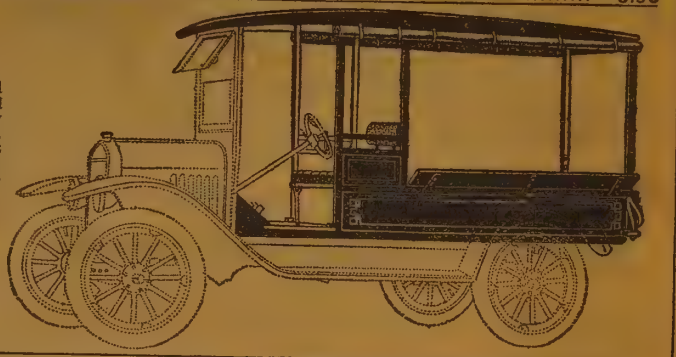
19 K 2621F Newport Body with windshield and top. Shpg. wt., 395 lbs. Price.. **78.90**

If Door is wanted state so on order and add..... **6.95**

Light Weight Standing Top Body

Widely Used as a Commercial Body for the Ford Chassis

A very practical light weight body for general purpose delivery. Well ironed. Drop end gate and flare boards on the side. Top is of strong, rigid construction, well braced and covered with heavy rubber fabric with heavy oil duck imitation leather, side curtains. Inside dimensions: Back of seat, 5 feet 2 inches long, 3 feet 8 inches wide and 9 inches deep. Top is 4 feet 7 inches above bottom of body. Painted green. Comes with holes bored to fit Ford chassis, making it easy to put it on. Net weight, 325 pounds. Shipping weight, 500 pounds. Shipped, partly knocked down, from factory in eastern Pennsylvania. **State MODEL of car when ordering.**



31 K 2604F Light Weight Standing Top Body. Complete.... **$85.40**

31 K 2656B Rear Fenders. Shipping weight, 10 pounds. Price, per pair..... **$4.98**

31 K 2655F Front Side Curtains at driver's seat extra. Shipping weight, 10 pounds. Price, per pair..... **$6.30**

For combination windshield and dash, see **31 K 2654B**, listed below.

Combination Windshield and Dash

Will Fit any Commercial Body Shown

This is a simple and strongly built windshield that can be used with any of our top bodies. The upper sash is adjustable and can be placed in any position. It is adjusted by simply a push or pull and handles are attached inside of the sash for this purpose. It is equipped with plate glass set in rubber channels and properly secured. Windshield is painted black. It adds greatly to the appearance of any car, besides furnishing pure air circulation at all times. Shipping weight, 120 pounds. Shipped from New York.

31 K 2654B Price, complete..... **$18.60**

Monarch Demountable Roadster Body

Excellent Quality—All Hardwood Construction Painted a Glossy Black—Nicely Striped

If you intend to convert your Ford Roadster into a light, serviceable truck, it will be hard to beat the Monarch demountable body. It is exceptionally well built of select hardwood, well joined and with all castings fastened inside. The body is painted a glossy black and nicely striped. A strong, well ironed drop end gate is attached, swung on hinges. Body dimensions (inside) measure: 54 inches long, 38 inches wide with side panels 8 inches deep furnished with flare boards securely braced. Opening provided in floor of body, allowing easy access to batteries. Shipping weight, 185 pounds. Shipped set up, crated from warehouse in New York City.

31 K 2610C Monarch Demountable Roadster Body. Price..... **$13.35**

Monarch Bob Sleds

Monarch Bob Sleds are in a class by themselves. They are as good sleds as can be bought anywhere, and the prices are lower! Only thoroughly dry Northern hardwoods are used with runners wide, well ironed and well braced. All are carefully made up and well painted. You can be sure that you're getting a mighty fine value if it's a Monarch Bob!

Monarch Bob Sleds Shipped from Factory in Ohio

Load, Log and Lumber Binders

The man who hauls lumber or logs cannot afford to be without them

Take up slack and bind logs, loads easily and quickly. Fit any chain. Shipping weight, 10 lbs.

31 K 2235B Price, each **$2.10**

Genuine Burton Single Reach Oscillator

Shipped from Factory in Ohio

Same as double reach sled, except with single reach and stub tongue, and roller construction on back sled. Runners ironed to prevent splitting. Track, 3 feet 6 inches. Regular bolsters, 38 inches between stakes. Neatly painted, striped and varnished.

	Length of Runner	Length of Cast Shoe	Size of Runner	Size Front Beam	Size Front Bolster	Size Rear Bunks	Shpg. Wt. Lbs.	Price
31 K 2714D	5 ft.	3 ft. 9 in.	4x2	Ins.	Inches	4½x4½	450	**$41.35**
31 K 2715D	5 ft.	3 ft. 9 in.	5x2	4½x4½	4½x4½	4½x4½	500	**43.67**

Imperial Four and Six Knee Bob Sled

Shipped from factory in Ohio

An ideal sled for farm work and general hauling. Runs very easy in deep snow and over unbroken roads. Built entirely of thoroughly dry hardwood. A very practical and useful general purpose sled. Is as strongly braced and as well built as much higher priced sleds. An unusual value for the money. Knees iron-braced and strongly bolted to runners. Regular bolsters, 38 inches between stakes. Well painted, striped and varnished.

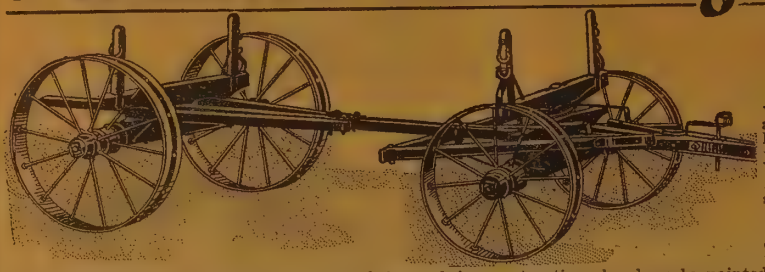
	No. of Knees	Length of Runner	Length of Cast Shoe	Size of Runner	Size of Beams	Size of Bolsters	Size of Raves	Shpg. Wt., Lbs.	Price
				Inches	Inches	Inches	Inches		
31 K 2710D	4	5 ft.	3 ft. 3 in.	2x3	2x3	3x4	1¼x5	275	**$28.90**
31 K 2711D	6	5 ft.	3 ft. 3 in.	2x3	2x3	3x4	1¼x5	300	**32.75**

Steel Knee One Horse Bob Sled

This sled with steel knees and braces combines all the features of strength and lightness. Made of thoroughly dry hardwood. Equipped with shafts and adjustable shifting bar to allow horse to walk in track. Made of seasoned wood, painted, striped and varnished. This sled may be furnished without shafts and equipped with adjustable attaching device, to fit standard shafts. All runners reinforced with iron straps to increase wear and prevent splitting.

	Length of Runner	Length of Cast Shoe	Size of Runner	Size of Beams	Size of Bolsters	Size of Steel Raves	Shpg. Wt. Lbs.	Price
			Inches	Inches	Inches	Ins.		
31 K 2718D	5 ft.	3 ft. 3 in.	2x3	5x2½	3x4	⅝x1¼	200	**$29.95**

Monarch Farm Wagons and Trucks

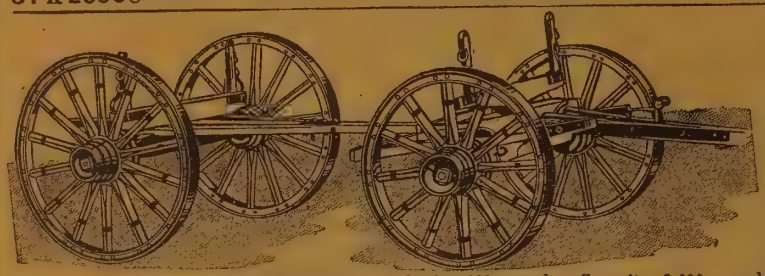


Monarch Steel Wheel Truck

We don't like to boast too much about these fine trucks, but we know we have here two of the best values offered anywhere at the price. When we first listed them last spring at these low prices, we received an instant response from farmers everywhere. Hundreds have been sold giving the best of satisfaction. You will note that these trucks are complete in every way and are of the be t construction. They are painted a bright red, nicely striped, making a very attractive appearance.

The truck is built low, close to the ground so that it can be easily loaded. The all steel wheels have broad, flat grooved tires, which prevent truck from sinking deeply into moist soil. Only good old reliable, well seasoned hardwood is used in construction, handsomely painted with two coats of red and finely striped. Furnished with full hound and drop tongue. Axle wood. Adjustable reach. 4 ft. 8 in. track. Width between standards, 38 ins. Capac ty, 3 500 lbs. Shipped knocked down from New York City. **Size of Skein,** 3¼x10. **Size of Tire,** 4x⅜. **Hght. of Wheels,** 28 in. front, 32 in. rear. Shpg. wt., 650 lbs. **$42.85**

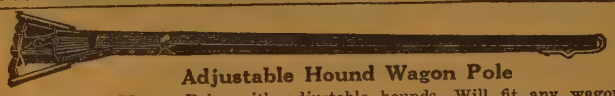
31 K 2548C **Monarch Steel Farm Truck.** Price, including Pole..... **$42.85**
31 K 2090C Doubletree Set with Singletree, Neck-Yoke and Stay Chain. Shpg. wt., 40 lbs. Price..... **$4.95**



Monarch Wood Wheel Truck

This truck is exactly like our **31 K 2548C** only that it has wood wheels instead of steel ones. We want to call your especial attention to these wheels because of their unusually sturdy construction. The hubs are made from solid oak. Also the spokes and felloes. Before the tires are put on, the wheels are boiled in linseed oil, with the outside of rims well painted. You will also note that rims of wheels are securely riveted. Bolsters are well ironed and reinforced. Axle wood. The insides of the hubs are painted before the boxes are set. The reach is adjustable. Truck is given two coats of red paint—and striped. Front wheels are 36 inches high and rear wheels 42 inches. We are unable to make any change in wheel sizes. Width between standard, 38 inches. **Track**—4 feet 8 inches from center to center of tires on the ground. Shipped knocked down from New York City. Size of skein, 3¼x10 inches. Size of tire, 3x⅜ inches. Shipping Weight, 660 pounds. Capacity, 3,000 pounds. **$49.50**

31 K 2545D Price, including pole..... **$4.95**
31 K 2090D Extra f r doubletree, singletree, neck yoke and stay chains.....



Adjustable Hound Wagon Pole

Selected Oak Wagon Pole, with adjustable hounds. Will fit any wagon except stiff tongue wagons. Equipped with pole cap, hammer strap and painted. Shipping weight, about 50 pounds. 3½-in. butts. **$7.98**

31 K 2014C Price, each.....

Finished Oak Wagon Tongues

Made of straight grained, thoroughly seasoned, selected oak. Finished in the white; with square butts. Size, 3½ inches. Shipping weight, 35 pounds. 12 feet long. **$2.95**

31 K 2013C Price, each.....

Wagon and Implement Parts

Wagon or Implement Doubletree Set

A good plow weight set that is dependable. Made of steel with malleable iron center clevis and hook. Painted black, 36-inch doubletree; 28-inch singletrees. Shpg. wt., 25 lbs. **$3.70**

31 K 2067B Price, per set..

Plow Doubletree Set

Fitted for heavy plowing, grading and other farm work. Hickory, ironed complete. Flat doubletree measures 1¾x3½x42 inches; singletrees, 2⅝x28 in. Shipping weight 12 pounds. **$1.85**

31 K 2060B Price, set

Monarch Wagon Set

The Farmers' Favorite

Made of select, seasoned hardwood, well varnished. Set consists of doubletree, neck-yoke and singletrees, completely ironed, steel clevises, hooks, rings and ferrules, all full sizes. Doubletree, 2x4x48 inches; singletrees, 2⅝x36 inches; neck yoke, 2½x40 inches. Shpg. wt., 30 pounds. **$3.95**

31 K 2066B Price, per set as illustrated.....
31 K 2070B **Neck Yoke only.** Shpg. wt., 7 lbs..... **$1.29**
31 K 2071B **Doubletree and singletrees only.** Shpg. wt., 23 lbs. Set.. **3.15**

Steel Plow Doubletree

Tubular steel with malleable iron clevis and hook. May be used to make a good plow doubletree set. Length 36 inches. Shpg. wt., 9 lbs. **$1.70**

31 K 2077B Price, each.

Wagon Neck Yoke

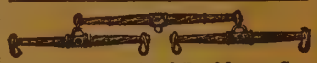
Made of tubular steel, tapering. With rings. Shipping weight, about 12 lbs.
31 K 2089B 36 inches long. Price, each..... **$1.55**
31 K 2080B 40 inches long. Price, each..... **$1.75**
31 K 2083B 44 inches long. Price, each..... **1.95**

Trace and Tongue Iron

Trace and Tongue Iron. Will relieve strain on horse's shoulder. Slot on one end, hook on other. Shipping weight, 5½ lbs. per set.

31 K 2300 **Trace or Draft Spring.** Stands pull of 8,000 lbs. per set. (4) springs, for 2 horses.. **$1.86**

If one pair is desired, the price is one-half that for four.



Heavy Wagon Steel Doubletree Set

Ideal for heavy hauling. Doub'etree, 48 inches long; singletrees, 34 inches long. Shipping weight, 35 pounds. **$4.90**

31 K 2076B Price, per set.

Similar to above. Tubular steel. Doubletree, 36 inches long; singletree, 28 inches long. Shpg. wt., 25 pounds.

31 K 2061B Price, set..... **$3.58**

Steel Plow Singletree

Of one piece, light "U" bar shaped steel with hooks. Shpg. wt., about 5 pounds.

31 K 2078B 26 ins. Price, each..... **58c**

31 K 2079B 28 ins. Price, each..... **63c**

Three-Horse Wagon Equalizer

The new improved three-horse equalizers for hitching three horses to any wagon or implement that has a tongue. Constructed so that each horse pulls an equal load; reversible. Heavy white oak. Adjustable clamp on tongue. Reversible horse on either side of pole. Can be used as a two-horse plow set by removing doubletree. Shipping weight, 55 pounds.

31 K 2082D Price, per set..... **$7.75**

Selected seasoned Hardwood Strap End Singletree. Ends cannot pull off.

31 K 2068B 2¼x28 inches. Shpg. weight, 6 pounds. Price, each..... **67c**
31 K 2069B 2½x32 inches. Shpg. wt., 6 lbs. Price, each..... **70c**
31 K 2072B 2⅝x36 inches. This size is generally used on wagons. Shpg. wt., 7 lbs. Price, ea. **96c**

Ironed Singletree made of seasoned Hardwood. Complete with back pull ferrules and hooks.

31 K 2074B 2⅜x30 inches. Shpg. wt., 4 lbs. Price, each..... **63c**
31 K 2075B 2⅝x36 inches. Shpg. wt., 5½ lbs. Price, each..... **86c**

Two and Three Horse Eveners

These eveners are intended for use on a plow, either riding or walking. It may be quickly changed into a two-horse evener. Beam made of well-seasoned Hickory. Equalizing bars of soft steel. Singletrees, Hickory, 28 inches long. Shipping weight, about 28 pounds. **$5.60**

31 K 2081B Price, per set, with singletrees.

Two or Three Horse Plow Set

The steel beam has two holes for coupling, one center, the other off-set hitch. Doubletree, singletrees, and evener of steel. Hitch may be changed for horse to walk in furrow. Shipping weight, about 40 pounds. **$5.25**

31 K 2064B Price, per set.....

Two and Three Horse Evener

Made of select hardwood, with patent double-strength clevises, and ends of evener not riveted. Quickly changed for two horses. Size of the large evener, 1⅞x3¾x42 inches. Size of eveners, 1¾x2½x28 inches. Size of singletrees, 26 inches. Shipping weight, 28 pounds. **$4.65**

31 K 2065B Price, per set.....

Quality Right—but Prices Very Low!

Monarch One Horse Farm Wagon

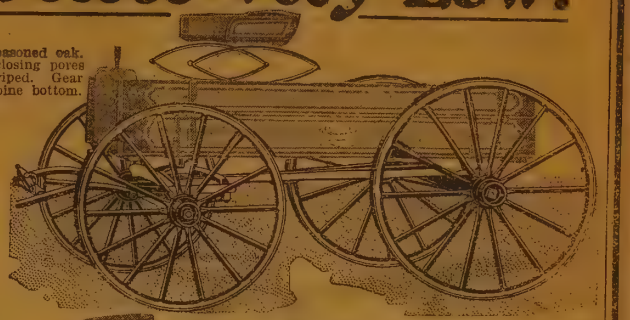
GEAR—Axles and spokes of air-seasoned hickory. Hubs, rims, bolsters and gear woods made of seasoned oak. Substantial ironing. **PAINTING**—All gear woods dipped in boiled linseed oil before ironing, thus closing pores of wood. After ironing, gear and box are given two coats of high grade lead and oil paint, then striped. Gear painted bright red, with attractive black and yellow striping. **BOX**—Poplar sides, long leaf yellow pine bottom. Cross sills riveted on ends, beveled edge irons and patent self-centering box-rods. **TRACK**—4 feet 8 inches from center to center of tires on ground. Shipped from Indiana.

	Wt. Gear only Lbs.	Price, Gear only	Size Gear Skeins, only In.	Size Tires, In.	Box Depth Inches	Box Cap., Lbs.	Shpg. Wt., Lbs.	Wagon	Price, Wagon Complete
31 K 2520F	450	$38.60	2¼x7	1¼x5/16	14	1,500	550	31 K 2522F	$57.80
31 K 2521F	660	50.95	2½x8	1⅝x⅜	14	1,800	700	31 K 2523F	71.30
Extra for box brake									6.75
Extra for gear brake									6.65
Extra for pole in addition to shafts									6.30
Extra for Easy Back on Seat									.60

Monarch One Horse Farm Wagon

Similar to our 31 K 2520F, with the exception that it has steel axles and Sarvern patent wheels instead of wood hub wheels. Length of Box, 54 inches.

	Wt. Gear only Lbs.	Price, Gear only	Size Gear Skeins, only In.	Size Tires, In.	Box Depth Inches	Box Cap., Lbs.	Shpg. Wt., Lbs.	Wagon,	Price, Wagon Complete
31 K 2526F	450	$43.75	1¼x7	1¾x5/16	14	1,700	550	31 K 2527F	$56.90

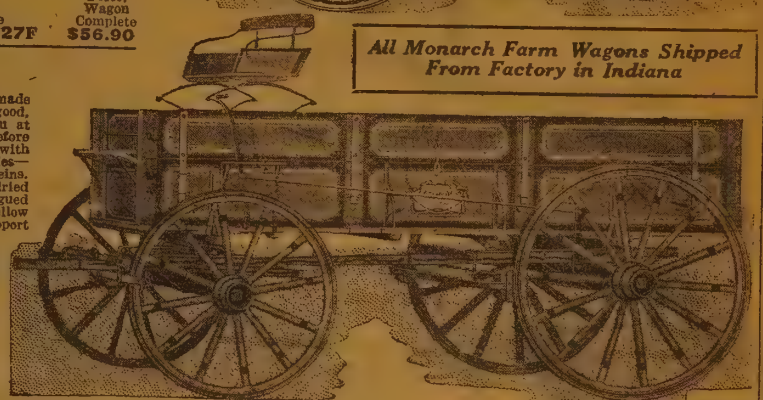


All Monarch Farm Wagons Shipped From Factory in Indiana

New Monarch Farm Wagons

We have been selling these good Monarch Farm Wagons for years. They're made in Indiana in one of the biggest farm factories in the country. If you want a good, durable farm wagon with easy running qualities, here's one that will please you at a low price. **Gear**—Parts have been thoroughly treated with linseed oil before being ironed. Front and rear hounds are double braced. Rear axle is fitted with an iron box to prevent the reach from wearing the bolster and axle. Axles—Close grained hickory, air seasoned and accurately fitted to heavy, seamless skeins. **Wheels**—The hubs, rims and spokes of the wheels are made of thoroughly air-dried white oak. Tires are all steel. **Box**—Bottom is made of yellow pine with tongued and grooved 4-inch board floor. Sides are made of one-piece boards of yellow poplar or other wood its equal; eight box cleats, four on each side to support bottom and hold top box down. Tie chain to prevent spreading. Wood cross sills and Comstock patent side dump gate. **Tongue**—Hound chop type of white oak. Singletrees have back plate which increases their strength and protects them from wearing against wheels. We can furnish 42-inch front and 48-inch rear wheels, or 44-inch front and 52-inch rear, without extra charge. State CHOICE. Track, 4 feet 8 inches only. Shipped from Indiana.

Extra for 2-in. tires, add..... $3.38
Extra for 2¼-in. tires, add..... 6.72
Extra for 3-in. tires, add..... 9.95
Extra for Gear Brake, add..... 6.55



Catalog Number Gear Only	Price of Gear Only	Catalog No. Wagon Complete	Size of Skeins	Height of Wheels Front	Height of Wheels Rear	Tires	Regular Length	Depth of box	Capacity Pounds	Shipping Weight	Price of Wagon Complete
31 K 2530F	$68.90	31 K 2534F	2½x 8 in.	40 in.	44 in.	1½x1½ in.	10 ft.	22 in.	2200	1000 lbs.	$97.55
31 K 2531F	69.80	31 K 2535F	2¾x 8½ in.	40 in.	44 in.	1½x1½ in.	10 ft.	24 in.	2700	1100 lbs.	98.75
31 K 2532F	71.40	31 K 2536F	3 x 9 in.	40 in.	44 in.	1½x⅝ in.	10 ft. 6 in.	26 in.	3200	1200 lbs.	99.95
31 K 2533F	73.45	31 K 2537F	3¼x10 in.	40 in.	44 in.	1½x⅝ in.	10 ft. 6 in.	26 in.	4000	1275 lbs.	103.75

Neck Yoke Centers

3-in. steel. Wt., 2½ lbs.
31 K 2270
Ring Dia. Eye. In.
9/16 3½ ⅝ 33c

31 K 2272
9/16 3½ ⅝ 36c

31 K 2273
9/16 4 ⅝ 39c

Wagon Hardware and Tools

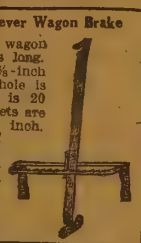
Steel Wagon Box Strap Bolts. 8-piece set.
31 K 2210

Diameter Lgth. Screw	Weight per set	Price Set
In. In.	Lbs.	
10 ½	4½	$0.76
14 9/16	7	.93
16 9/16	7½	.98
18 ⅝	10	1.18

Wagon Box Side Braces. Steel. Wt. 14 lbs.
31 K 2205

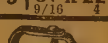
Length Inches	Size Inches	Price Each
15½	7/16	14c
15½	½	16c
15½	9/16	20c

Singletree Hooks and Straps. Rivets to end of singletree. Wt., 1½ lbs.
31 K 2250 Hooks only. 7/16 in. Pair..... 15c
31 K 2251 Straps only. 7/16x12 in. Pair..... 17c



Improved Foot Lever Wagon Brake
This foot lever wagon brake is 34 inches long. The lever is 1½x⅜-inch iron. Brake rod hole is ½ inch. Ratchet is 20 inches long. Ratchets are 1½-inch by 5/16 inch. Holes in heel of ratchet take ⅜-in. bolts. Furnished as shown, without bolts. Shpg. wt., 12 lbs.
31 K 2006B
Price $1.58

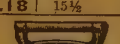
Evener Clevis with hook and swivel for 2¼-in. beam, 4 in. clear, 9¼ in. long. Shp. wt., 3¾ lbs.
31 K 2278
Price, each..47c



Lock Pin Clevis. For 1¾x3½-inch double-tree. Weight, 2 pounds.
31 K 2276
Each 26c

Screw Pin Clevis. Malleable iron; Opening, 2 ins. Lgth. inside, 3½ in. Wt., 1¼ lbs.
31 K 2275
Each 21c

Feiloe Oiler. Cast iron. Oils wheels up to 4 in. tires. Keeps tires tight. Shpg. wt., 14 pounds.
31 K 2187B
Each ..$1.34



Rose Irons for end spring buggies. Malleable iron. Size: Full length of iron, 5⅝ ins.; length of roller, 3⅝ ins.; width of rim, 2¾ ins. Shpg. wt., 1¼ lbs.
31 K 2191
Price, per pair... 34c

Wagon Rub Irons. Steel, 2½ x5½ ins. Wt., pr., 1½ lbs.
31 K 2190
Price, pair..... 26c

Spoke Repairer. Quickly makes a split spoke as strong as new. Clamps malleable iron. Shpg. wt., 3 ozs. State SIZE.
31 K 2185
Size ins. ¾ ⅞ 1 1⅛ 1¼
Each 15c 16c 17c 18c 20c

Stake Irons. Wt., 2 lbs. each. Stake, in., 1½x2½; deep, in., 2½; hole, in., ⅞.
31 K 2228
Price, each..... 17c

Adjustable Bolster Stake to fit any bolster. Malleable iron, Eye, 1½ ins. Wt., 5 lbs.
31 K 2225A
Price, each.. 83c

Wagon Hollow Bolster Stakes. Malleable Iron.
31 K 2226A
For 3-in. Bolster. Height, 7¼ ins. Opening for 2-in. stake. Shpg. wt., 16 lbs. Price, per set of 4.....$3.26
31 K 2227A For 3¼-in. bolster. Height, 8¼ ins. Opening for 3¼-in. stake. Shpg. wt., 20 lbs. Price, per set of 4.....$4.12

31 K 2261
Twisted Center Clip. State SIZE.

Size	Wt.	Price
⅛ in.	12 oz.	16c
⅝ in.	12 oz.	21c
¾ in.	12 oz.	26c

Center Clips for Singletrees. Size, ½ in. Wt., 12 ozs.
31 K 2262
Price, each..... 14c

Singletree Center Clip with ring. Wrought iron. Wt., 1 lb.
31 K 2260

Clip, Inches	Ring, Inches	Price, Each
½	7/16	16c
9/16	7/16	18c
⅝	½	21c

Shaft Coupling for buggy or surrey. Can remove or attach shafts quickly. Shpg. wt., 3 lbs.
31 K 2285 Buggy size. Price, per pair 84c
31 K 2286 Surrey size. Price, pr. 89c

Square Axle Coupling Clips. Malleable iron. For shafts or pole. Shpg. wt., 1½ lbs.
31 K 2290 Size eye, 1 in.; bolt, ⅝ in.; clip, 3 ins.; shank, 5/16 in. Pair..... 44c
31 K 2291 Size eye, 1 in.; bolt, 7/16 in.; clip, 3 ins.; shank, 5/16. Pair..... 47c

Spring Seat Hooks
31 K 2237 Opening for spring bar, 1½ ins. For side board, 1 in. Drop, 2½ ins. Shpg. wt., 2 lbs. 27c
Set of 4.....
31 K 2238 For spring bar, 1⅝ ins.; side board, 1 in. Drop, 3⅝ ins. Shpg. wt., 2 lbs. Price, set of 4.....30c

Pole Caps, for 5/16 bolt. Length, 1 foot. Wt., 2 lbs.
31 K 2240
Price, each.... 26c

Singletree Hooks. Malleable ferrules. Wt., 1½ lbs.
31 K 2246 Small end, 1¼ ins. Pair..... 27c
31 K 2247 Small end, 1½ ins. Pair.30c

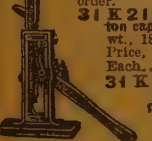
Ferrules and Hooks. Tapering Holes, 1¼ ins. x1 5/16-in. Depth. 1½ ins.; Wt., 1 lb.
31 K 2245 20c
Price, pair...

Whiffletree Hook. One-piece pattern.
Dia. of hole, 1⅛ ins. Wt., 1 lb.
31 K 2248 9c
Price, Pair..

31 K 2249 Safety Whiffletree Hook. Malleable iron.

Dia.	Wt.	Pair
1⅜	1½	71c
⅞	¾	48c
1	¾	49c
1⅛	1	56c
1¼	1⅜	63c

Wagon Box Irons, ⅝ in. steel.
31 K 2220A 3 ft. 3 ins. in clear. Wt., 1½ lbs. 22c
Each.....
31 K 2221A 3 ft. 7 ins. in clear. Wt., 2 lbs. Each. 24c



Improved Wagon Jack. Strong and durable; no springs to get out of order.
31 K 2160B Two-ton capacity. Shpg. wt., 18 lbs. Price, Each... $4.25
31 K 2161B Four-ton capacity. Shpg. wt., 24 lbs. Each, $5.43
31 K 2162B 6-ton Capacity. Shpg. wt., 40 lbs. Each. $8.58

Box Staples. Shpg. wt., 3 lbs.
31 K 2295 Deep, in., ⅝; wide, ins., 1½; lgth., ins., 3½. Price, doz....44c
31 K 2296 Deep, in., ⅝; wide, ins., ⅝; length, ins., 4. Doz....51c

Pole Cap with holdback and wear iron, 3-piece. Wt., 3 lbs.
31 K 2241 41c
Price, each..

Tongue or Pole Chain. 5/16 - in. straight chain. 33 ins. Wt., 4½ lbs.
31 K 2153 68c
Price, pair...

Wagon Stay Chains. 5/16 - in. twisted link. Lgth., 24 ins. Wt., 4½ lbs.
31 K 2154 39c
Price, pair....

Wagon Tongue Support ⅝-in. steel. Keeps tongue straight and weight off horse's neck. Wt., 12 lbs.
31 K 2305B $1.85
Each.....

Leather Axle Washer. Fits any nut or collar. Put up in coils. 100 in box.
31 K 2400

Size	Wt., Per ins.	Per ozs. box
⅞	8	26c
1	9	29c
1⅛	10	32c
1¼	14	34c

New Patent Buggy Jack
By pulling down handle will raise 2½ ins.; locks by passing center. With lower load jar. Also used to raise machinery and push posts. Made of malleable iron, with steel base. Lifting range, 12 ins.
31 K 2163B
For light wagons and buggies. Shpg. wt., 10 lbs. Price..... $1.35

Buggy Wrenches. ⅞ in., 1 in., 1⅛ ins., 1¼ ins., 1⅜ ins. Sizes given are for nut of wheel. Shpg. wt., 1 lb. State SIZE wanted.
31 K 2170
Price, each..... 14c

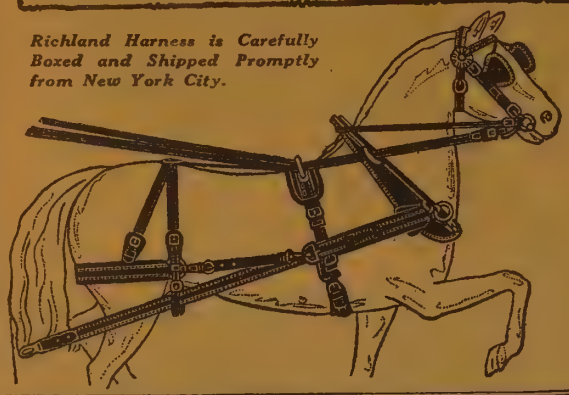
Brace Wrenches, in sets of 5, one of each size, ⅝ in., ½ in., ⅝ in., ¾ in. and ⅞ in.
31 K 2171
Price, set..... 39c

Harvester Wrenches, ½ in., ⅝ in., ¾ in. x⅞ x1 x1⅛ in. opening. Wt., 1 lb.
31 K 2172 Pr., ea.. 23c

Richland Dependable Work Harness

Harness Facts! *Richland Harness is cut from solid, bark-tanned harness stock. It is securely "lock stitch" sewed with pure linen thread. Only high grade harness hardware is used. It is made by skilled workmen in one of the oldest and best factories in the east. Every judge of good harness knows that these facts mean dependability*

Richland Harness is Carefully Boxed and Shipped Promptly from New York City.



Farm and Wagon Single Harness

Hames are Fitted with Breast Strap Rings Can Be Used for Team Work if Desired

This harness is a very popular seller in all sections of the country and a particular favorite for general farm and wagon work. We sell it as a single harness, but it can also be used for team work as hames are fitted with breast strap rings. It is unusually strong and serviceable, and one that will please you with its good appearance and durability. You can't go wrong on this harness. It is an excellent value at our low price.

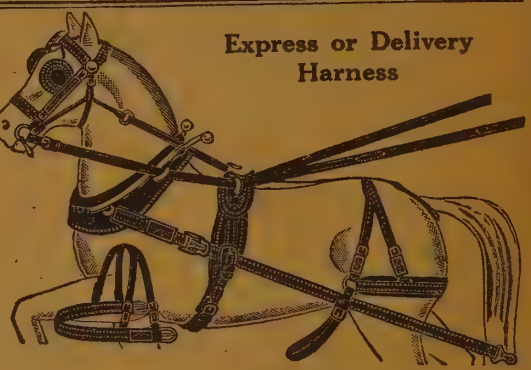
Bridles—¾-in. double and stitched cheeks, cup shaped leather blinds, flat winker braces, flat side check to loop over hames. **Lines**—1 in. wide throughout, 13½ ft. long with buckles, billets and snaps. **Traces**—1½ in. wide, 6 ft. long with clip cockeye. **Hames and Hame Tugs**—Black clip hames with iron over top. Hame tugs doubled and stitched with two loops. Hame straps, ⅞ in. **Pad**—Flexible style with hook and terrets. **Belly Band**—1¾ in. folded. Shaft tugs, 1¼ in doubled and stitched. **Breeching**—Folded style with ⅞ in. layer, ⅞ in. up tugs with leather loops; hip straps, ⅞ in. turnback, 1⅛ in. side straps, ⅞ in. lazy strap, 1x21 in. long. **Trimming**—Japanned. Shipping weight, 26 pounds.

31 K 1202B Farm and Wagon Single Harness, with hames, without collar. Price..... **$26.35**

Express and Farm Harness

Be Sure to State SIZE of Hames Wanted

Express or Delivery Harness



Something New and Different—Two Style Harnesses in One A Real Economy—A Good Value

A combination Express and Farm harness. With this harness two belly band billets are furnished to loop on to traces. You can remove saddle and breeching and use harness for plowing, or you can also use same in team harness by removing saddle and using crotch back strap breeching. **Bridle**—¾ in. short box loop cheeks, round winker braces, short flat side cheek to loop over hame or saddle; sensible blinds, spotted front and nose band. **Hames**—Brass ball top clip hames—wood painted red; hame straps, 1x21 and 1x24 in. **State SIZE Hames. Lines**—1 in. throughout 14 ft. long to loop in bit. **Traces**—To clip on to hames, heavy three ply double and stitched, 6 ft. long, 18 in. swivel hook heel chain, with 2 belly band billets. **Saddle**—Brass Express, 4 in. wide full padded, heavy harness leather skirts, 1¼ in. double and stitched bearers. **Belly Band**—Double sliding, inside folded with layer. Outside single strap attached to inside loop. **Breeching**—Heavy folded with layer, ⅞ in. up tugs with loops. **Hip Strap**—⅞ in. double; turnback, 1⅛ in.; side strap, ⅞ in. **Shaft Tugs**—1¼ in. japanned buckle with leather loop. 1 in. dee and billet.

31 K 1224B Express Harness. Shipping weight, 35 pounds. Price, without collar..... **$38.90**

31 K 1016B Breeching with crotch back straps for single harness. Price, each **$7.35**

For details of this breeching See 31 K 1016 on page 27

Our Express or Delivery Harness is a very high grade harness that looks well and wears well. We regularly furnish this set with hames, but also quote it with breast collar for those who desire this arrangement. From the specifications below, you will note that this is strong, well proportioned harness that compares well, if not more favorably with harnesses selling from five to ten dollars higher.

Bridle—¾ in. short box loop; check round winker traces; short round side check to check over hame; sensible blinds; 1-row stitching on ends. Stitched front. Gag swivels. **Lines**—1 in. wide; 14 ft. long with buckle and billet. **Traces**—1¼ in. wide; 6 ft. 6 in. long, doubled and stitched. **Hames and Hame Tugs**—Wood painted red; brass ball top, 1¼ in. hame tugs. Straps, ⅝ in. **Saddle**—Brass express; 4 in. padded; patent leather jockey; heavy harness leather skirts, with 1¼ in. double and stitched bearers. **Belly Bands**—Double sliding, inside folded with layer. Shaft tugs, 1¼ in. with 1 in. billets. **Breeching**—2 in. folded with 1⅛ in. doubled stitched layer; ¾ in. box loop up tugs. **Hip Strap**—¾ in. forked, spotted at top and scalloped. Turnback, 1 in. reversed style; 1⅓ in. flaxseed crupper buckled on. Hold-back straps, 1 in. wide, 47 in. long. **Trimming**—Japanned buckles, saddle and hame with brass trimmings. Shipping weight, about 30 pounds.

31 K 1207B Harness, without collar. **(State SIZE Hames).** Price..... **$37.20**

31 K 1208B Harness, with breast collar to buckle into trace. Price **$37.45**

Chain Trace Plow and Wagon Harness

A Reliable Harness at an Exceptionally Low Price Make a Substantial Saving on This Set—Order Now for Spring Work

We are offering our customers this Chain Trace Plow and Wagon Harness at a special price. Although very low in price, we guarantee this harness to be thoroughly reliable in every way. Here is an opportunity to get a good harness set for fall plowing or other work at so low a price that it might even pay to buy one now for spring use.

Bridles—⅞ in. flat cheeks with center bar buckles, pigeon wing blinds, flat winker braces. **Lines**—⅞ in. wide, 15 ft. long with snap. **Hames**—Hook pattern. Large enough to fit 22 in. collars; ⅞ in. hame straps; 28 in. breast chains. **Traces**—Chain, 7 ft. long; made of No. 2 wire with seven links to the foot, 24 in. leather chain piping. **Back-Band**—Leather, 3½ in. wide, with 1¼ in. belly band. **Turnback**—⅞ in. wide; ⅞ in. hip straps; buckle cruppers. Shipping weight, about 50 pounds.

31 K 1225B Team Harness, without collar or breeching. State SIZE Hames. Price..... **$24.90**

If you prefer breeching also, Order 31 K 1017 listed below

Chain Trace Harness Breeching

Single Strap Breeching of good solid leather. Bodies are single strap made Southern style, 3 inches wide; the quarter straps are 1⅛ inches wide and the back straps 1⅛ inches wide; lace strings at hame. Shipping weight, 8 pounds.

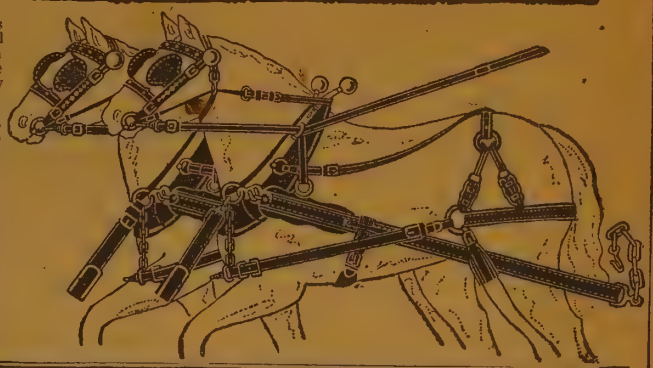
31 K 1017 Price, per pair..... **$9.55**

Better Values Now than Ever!

Leader Team Harness

A Substantial Solid Leather Work Harness
— An Exceptionally Good Buy at Our Low Price

Harness Prices *We save you money on harness—but not at the sacrifice of good quality. Every harness listed, though manufactured in large quantities to enable a lower selling price, measures up to the high standards set by us. This means lower cost to you—but always 100 cents value on every dollar invested.*



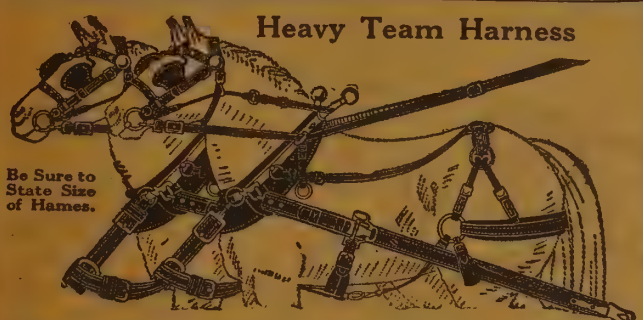
We have been selling this big, substantial team harness for years, and it has always given the best of satisfaction. It is used in all sections. For general, all around farm work, it will give you the service that goes with a harness of much higher price. All parts are cut from first class solid leather, guaranteed free from all defects, and sewed with linen thread. This is a good value at our low price. It will save you money, both in low cost and longer wear.

Bridles—¾-in. box loop cheeks, leather blinds; ¾-in. short side checks, with gag swivels, to check over hames. **Lines**—1 in. wide, 18 feet long, with loop buckles and snaps. **Traces**—1½ in. wide; 6 feet long; double and stitched with wave flanges at front end. **Belly Bands**—1½-in. heavy folded; 1¼-in. buckle. **Hames**—Brass ball top, all steel. **Hame straps**, 1 inch. Spread straps, ⅝ in. with rings. **Breeching**—2 in. folded with 1⅛ in. layer; ⅞ in. box loop leads up. Back strap, ⅞ in. double, running to hames, hip straps ⅞ in., three-ring style. Lazy straps, ⅝ in. **Breast Straps**—1½ in. with snaps and slides. **Jockey Straps**—1¼ in. reversed at each end. 12 in. Jockey chain with snap at each end. **Trimmings**—Japanned buckles, brass trimmings.

31 K 1235B Team Harness with 1½ in. trace. Shipping weight, 90 pounds. No collars. Price..... **$58.85**

31 K 1236B Team Harness, with 1¾ in. trace. Shipping weight, 95 pounds. No collars. Price..... **$59.90**

Heavy Team Harness

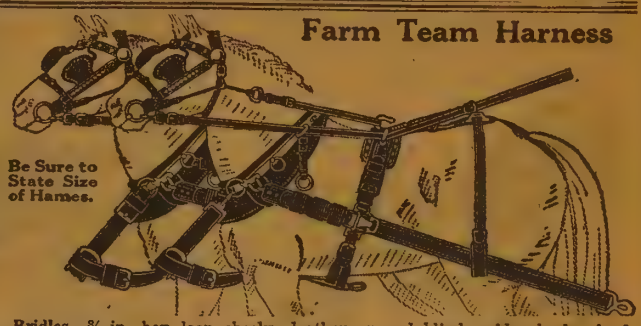


Be Sure to State Size of Hames.

Bridles—¾-in. box loop cheeks, leather; sensible blinds; short round side checks with gag swivels to loop over hames, spotted front and nose bands. **Lines**—1 in. wide, 18 ft. long, patent loop buckles and snaps. **Traces**—1½-in. heavy doubled and stitched, clip cockeye. **Belly Bands**—1½-in., heavy folded. 1¼-in. buckles. **Hame Tugs**—Folded 1½-in. lay, two pressed loops, double grip buckles. **Hames**—Brass ball tubular steel clip. Hame straps, 1-in. spread straps; ⅝-in. with rings. **Breeching**—2-in., heavy folded with lay, box loop up tugs. Back straps ⅞-in., double, running to ring on hames. Hip straps, ⅞-in. 3 rings, with patent trace carrier on each side. 1¼-in. spotted layer on hip safe. Lazy strap, ⅞-in. **Breast Straps**—1½-in., double and stitched with slides and snaps. **Martingales**—1½ in., reversed, with ring for breeching snap. **Trimming**—Japanned buckles, brass trimmings. Shipping weight, 84 pounds.

31 K 1239B Heavy Team Harness, **without collars.** Price. **$52.95**

Farm Team Harness



Be Sure to State Size of Hames.

Bridles—¾-in. box loop cheeks, leather cupped blinds, side checks, hook over pad hook, winker braces, spotted nose band and front. **Lines**—1-in. wide, 20 ft. long with buckles, billets and snaps. **Traces**—1½-in. wide, doubled and stitched, 6 ft. long; heavy, 3-ply 2-row stitched, triangular cockeye, belly bands, heavy folded, 1¼-in. buckles. **Hames and Hame Tugs**—Wood—low top, steel clip. Well ironed. Hame tugs, 1½-in, doubled and stitched; solid leather with three pressed leather loops and double grip trace buckles. Hame straps, 1-in. Spread straps, ⅝ in. with rings. **Pads**—Hook and terret, top folded with lay, bottom hair stuffed, double swell, spotted, inserted housings. **Hip and Back Straps**—⅞-in. hip with trace carriers. Back strap, 1-in. with folded crupper buckled on. **Breast Straps**—1½-in. full length with snaps and slides. **Martingales**—1½-in. reversed with ring for breeching straps. **Trimming**—Japanned; buckles; brass trimmings. Shipping weight, 86 pounds.

31 K 1231B Team Harness, **without breeching or collars.** Price..... **$54.65**

31 K 1232B Team Harness, with breeching, no collars. Price. **$61.49**

Farm Wagon Harness

We Recommend This as an Extra Good Value

Bridles—⅞-inch doubled and stitched cheeks; sensible, cup-shaped blinds; flat winker stay; short flat side check. **Lines**—1 in. wide; 15 feet long with snaps. **Traces**—1¾ in. or 2 in. wide as preferred, 4½ feet long with two rows of stitching and 3½-foot stage chain clipped on. **Belly Bands**—1½-in. heavy fold; 1x¼ in. buckles. **Hames**—Top, clip. Well ironed. Hame straps, ⅞-in. Spread straps, ⅝-in. with rings. **Pads**—3-in. single strap with felt lining and loop at top. **Hip and Back Straps**—Hip straps, 1-inch with trace carriers. Back straps, 1-inch single running to hames; folded crupper. **Breast Straps**—1½-in. with slides and snaps. **Martingales**—1½-in. reversed. **Trimming**—Japanned buckle, brass trimmed. Shipping weight, about 80 pounds.

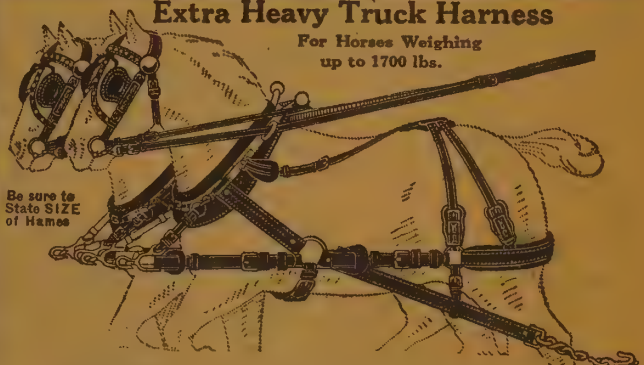
31 K 1233B Team Harness, **without breeching or collars,** 1¾-in. traces **$44.75**

31 K 1234B Team Harness, **without breeching or collars,** 2-in. traces. Shipping weight, 76 pounds. Price..... **$44.90**

31 K 1023B Breeching only, extra. Shpg. wt., 15 lbs. Pair.. **6.95**

Extra Heavy Truck Harness

For Horses Weighing up to 1700 lbs.



Be sure to State SIZE of Hames

Extra Strong—Extra Heavy—Made for Heavy Duty

Bridles—¾-in. box loop cheeks with large cupped leather blinds; ¾-in. flat side cheeks to loop over hames; round winker braces; closely spotted fronts and face pieces. **Lines**—1 in. wide; 16 ft. long, with buckles, billets and snaps. **Traces**—2-inch front with dee and 1¾-inch back, riveted at each end with copper rivets; 2-row stitched with 30-in. hook heel chain. Belly bands, 2-in., heavy folded with 1¼-in. layer. **Hames**—No. 10 Concord bolt style, dandy brass ball top. Will fit collars up to 24 inches. Hame straps, 1-in. Spread straps, ⅝-in. with rings. **Breeching**—2¾ in. wide with folded body, with 1½-in. straight layer, 1-in. box loop tugs with safes. Heavy 1-in. crotch back straps, with buckle safes at hames; heavy 1-in. double hip straps rump safe lined and padded; side straps, 1½-in.; yoke strap, 1¼-in.; jockey strap, 1-in.; lazy straps, 1-in. **Trimming**—Japanned buckles, brass trimmings. Shipping weight, 95 pounds.

31 K 1237B Extra Heavy Truck Harness, **without collars..** **$74.20**

High Grade Driving Harness at Saving Prices

For a real quality buggy harness, it will be hard to duplicate this set at the unusually low price quoted. It is a very high quality harness throughout, with patent leather blinds and japanned hames. If you prefer, you may have the harness with breast collar in place of hames. Good quality harness leather is used, making it not only neat in appearance but exceptionally durable. We can particularly recommend this harness as a very fine value for the money.

Bridle—⅝-inch cheeks; patent leather blinds; round winker braces; folded crown; 1-inch, heavy three-buckle overcheck.
Lines—1-inch front; 1⅛-inch hand part; 13½ feet long; spring billets.
Traces and Hames—3½ pounds. Imitation Rubber Hames. Traces, 1¼-inch single strap clipped to hames, 6 feet long. Doubled and stitched with wave flanges at front end, doubled and stitched at rear end with three dart holes for adjustment.
Saddle—3¼-inch flexible steel tree; single strap skirts; enameled patent leather, hair stuffed pad; 1-inch doubled and stitched swinging bearers.
Belly Band—Inside folded; outside single strap, ⅞-inch, attached with two loops. Shaft tugs, 1-inch, doubled and stitched with dee and billet.
Breeching—1¾-inch, single strap, three-ring stay, ¾-inch up tug; ¾-inch hip strap; ⅞-inch turnback with flaxseed crupper stitched on.
Trimming—Imitation Rubber. Shipping weight, 23 pounds.

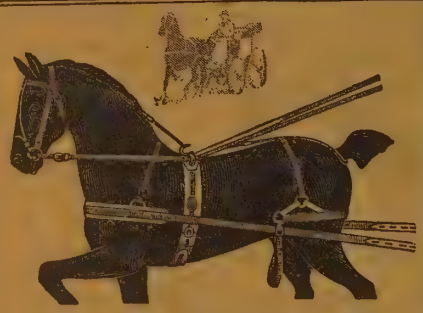
31 K 1200B Buggy Harness with Hames, but without collar. State SIZE of hames. Price..... **$23.80**

31 K 1201B Buggy Harness with short tugs in place of traces attached to hames. State SIZE. No collar. Price..... **$24.45**

31 K 1210B Buggy Harness with Breast Collar to buckle onto trace.... **25.20**

Catskill Buggy Harness

This Harness May Be Purchased with Hames or with Breast Collar



Russet Web Harness

Here is a well made web harness at a very moderate price. All wearing parts are reinforced with leather; also furnished with leather crupper making it unusually durable. Only grade A webbing used, firmly woven. Makes a good appearance and is almost as strong as leather. Has excellent wearing qualities.

Bridle—⅝-inch cheeks; ½-inch overcheck; ⅝-inch front; ⅝-inch throat latch. Nickel rosettes.
Lines—1-inch wide, 14 feet long.
Breast Collar—2 inches, ⅞-inch neck strap.
Traces—1¼-in. webbing; stitched breast collar; leather reinforced at ends; 6 feet long.
Saddle—2½ inches wide, flexible, 2½-inch heavy web skirt; 1-inch shaft bearers. Stuffed pad. Belly bands, 1 inch. Shaft tugs, 1 inch.
Breeching—2-inch heavy web with 1-inch layer. Hip strap, ⅝ inch. Side straps, 1 inch. Turnback, 1 inch. Leather crupper. Shpg. wt., 10 lbs.

31 K 1216 Price, complete..... **$6.85**

Heavy Driving Harness

Double neck and hip straps make this harness strong enough for a heavy road cart or for a surrey.

Bridle—⅝-inch box loop cheeks; patent leather blinds; folded crown; round winker brace; 1-inch heavy overcheck.
Lines—1 inch wide; 1½ inch wide at handle part; 13½ feet long, with spring billets.
Breast Collar—3-inch curved; single strap; ⅝ inch up tugs; neck strap, ⅝ inch, forked, with line rings.
Traces—1¼-inch single strap, 6 feet long; scalloped point stitched to breast collar, doubled and stitched at back end with three dart holes for adjustment.
Saddle—3¼-inch flexible steel tree, single strap skirts, enameled patent leather hair-stuffed pad, 1-inch doubled and stitched swinging bearers.
Belly Band—Inside folded; outside single strap ⅞ inch, attached with two loops. Shaft tugs, 1 inch doubled and stitched with dee and billet.
Breeching—1¾ inch single strap, ⅝ inch box loop up tugs, hip strap ⅝ inch scalloped and forked. Turnback, ⅞ inch, scalloped, with flaxseed crupper stitched on.
Trimming—Imitation Rubber.
Shipping weight, 24 pounds.

31 K 1205B Harness with Breast Collar, WITHOUT Hames and Traces. Price..... **$24.85**

31 K 1206B Harness with Hames and Traces, but no Collar. State SIZE Hames. Price..... **$23.80**

Standard Buggy Harness

Bridle—⅝-inch box loop cheeks, high grade patent leather blinds, round winker brace, folded crown, 1-inch heavy three buckle overcheck.
Lines—1-inch front, 1⅛-inch hand part, spring billet.
Breast Collar—3-inch, curved heavy single strap, ¾-inch up tugs, shaped neck strap.
Traces—1¼-inch single strap, scalloped point stitched to breast collar, doubled and stitched at back end with three dart holes for adjustment.
Saddle—3¼-inch flexible steel tree, single strap skirts, enameled patent leather pad hair stuffed. 1-inch doubled and stitched swinging bearers.
Belly Band—Inside folded, outside single strap ⅞ inch, attached with two loops. Shaft tugs, 1-inch doubled and stitched with dee and billet.
Breeching—1¾ inch single strap, three-ring stay, ¾-inch up tug, ¾-inch hip strap, ⅞-inch side straps, ⅞-inch turnback with flaxseed crupper stitched on.
Trimming—Imitation rubber. Weight, boxed for shipment, about 23 pounds.

31 K 1222B Richland Standard Buggy Harness. Price..... **$24.95**

31 K 1223B Richland Standard Buggy Harness with breast collar to buckle to traces in place of stitched on. Price..... **$26.60**

Goat Harness

All Russet Leather
A Well Made Little Harness

Bridles—½ inch.
Lines—⅝ inch, about 6 feet long.
Breast Collar—1 inch.
Traces—1 inch, about 80 inches from end to end.
Saddle—2 inches, single strap, ⅝-inch shaft tugs, double belly bands.
Breeching—1 inch, with breeching brace; hip straps, ⅝ inch; side straps, ⅝ inch.
Trimming—XC, all russet leather. Shipping weight, 8 pounds.

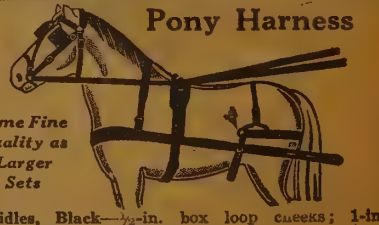
31 K 1219 Price..... **$5.25**

Similar to above but all parts cut extra long and heavy. Will fit horses weighing up to 1100 pounds.

Bridle—⅝ in. box loop cheeks with square patent leather blinds, round winker brace, ⅝ in. 5-buckle overcheck, with nose band; throat latch, ⅝ in.
Lines—1⅛ in throughout, 13½ ft. long with spring billets.
Breast Collar—3¼ in. single strap curved, neck strap, ⅝-in. with doubled forked, doubled and stitched at top with line terrets.
Traces—1⅜ in. single strap, 6 ft. long, with scalloped ends stitched to breast collar. Rear end doubled and stitched with 3 dart holes.
Saddle—3½ in. patent leather jockey, enameled leather housing, single-strap harness leather skirts, 1⅛ in. doubled and stitched swinging bearers.
Belly Band—Sliding; inside folded, outside 1 in. attached with two loops. Shaft tugs 1⅛ in., doubled and stitched with billet.
Breeching—2 in. single strap, with scalloped end layers, ⅝ in. box loop up tugs. Hip straps, ⅝ in. divided. Turnback ⅞ in. scalloped and reversed, with flaxseed crupper sewed on. Side straps, 1-in.
Trimming—Imitation rubber. Shpg. wt., 28 lbs.

31 K 1212B Extra large harness. With Breast Collar. Price..... **$29.85**

Pony Harness



Same Fine Quality as Larger Sets

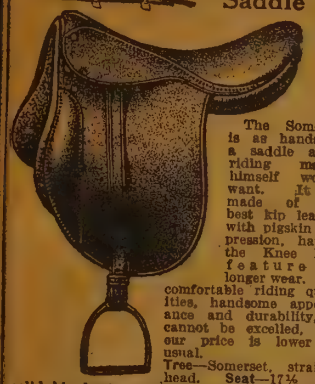
Bridles, Black—½-in. box loop cheeks; 1-in. crown; ¾-in. overcheck.
Lines—⅞-inch. 12 feet long.
Breast Collar—1½ inches.
Traces—1-inch, single strap.
Saddle—2¼-inch flexible patent leather pad, 1¾-in. skirts, ⅞-in. bearers. Shaft tugs, ⅝-in.
Belly Bands—Single strap.
Breeching—1⅝ single strap body. Hip strap, ½-inch; side straps, ¾-inch; turnback, ¾-inch. Stuffed crupper.
Shipping weight, 15 pounds.

31 K 1217A Black Imitation Rubber Trim. Price..... **$14.85**

31 K 1218A Single Pony Harness, furnished in russet leather. Nickel trim. Price. **$18.20**

Richland Saddles

Somerset Saddle



The Somerset is as handsome a saddle as a riding master himself would want. It is made of the best kip leather with pigskin impression, having the Knee Roll feature for longer wear. For comfortable riding qualities, handsome appearance and durability, it cannot be excelled, and our price is lower as usual.

Tree—Somerset, straight head. **Seat**—17½ in., solid kip leather, pigskin impression. **Jockey**—same material seamed on. **Flap**—same material, 10 ins. wide, 19 ins. long. **Knee Roll**—Stitched on. **Pad**—English serge lined and quilted. **Girth Billets**—1 in. **Girths**—One, cotton web, with 1 in. buckle. **Stirrup Leathers**—1⅛ in. **Stirrups**—Steel, nickel plated. Shpg. wt., 28 lbs.

31 K 741B Price, ea., complete **$22.40**

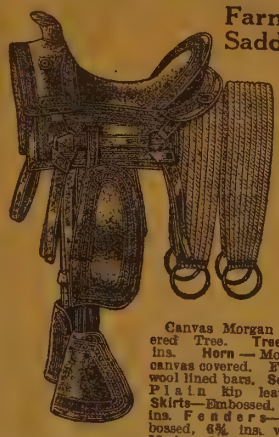
Demi Saddle

The Demi Saddle bears a close resemblance to the Somerset in general appearance though much lower in price. Aside from the absence of the Knee Roll, it is practically as handsome and fine a riding saddle as you would want. Made of kip leather, hogskin impression, with stirrups of X. C. plate.

Tree—Somerset. **Seat**—16-in. kip leather, hogskin impression. **Jockey**—Kip leather, hogskin impression, seamed on. **Flap**—Same material, 9 ins. wide, 16½ ins. long. **Pad**—Flannel lined. **Girth Billets**—1¼ ins. **Girths**—One, cotton web, with 1¼-in. buckle. **Stirrup Leathers**—1 in. wide. **Stirrups**—Iron, X. C. plate. Shpg. wt., 28 lbs.

31 K 740B Price, ea., complete **$11.35**

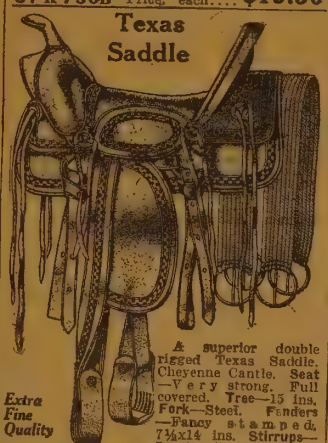
Farm Saddle



Canvas Morgan covered Tree. **Tree**—13 ins. **Horn**—Morgan canvas covered. Fleece wool lined bars. **Seat**—Plain kip leather. **Skirts**—Embossed, 13 ins. long. **Stirrup Leather**—1 in. **Tie Straps**—1 in. **Cinches**—Two, Cotton with rings. Leather covered stirrups. **Leather**—Full russet. Shipping weight, 26 pounds.

31 K 736B Price, each.... **$13.50**

Texas Saddle



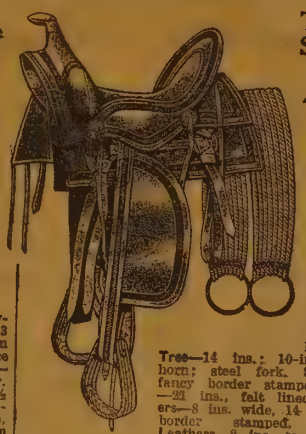
Extra Fine Quality

A superior double rigged Texas Saddle. Cheyenne Cantle. **Seat**—Very strong. Full covered. **Tree**—15 ins. **Fork**—Steel. **Fenders**—Fancy stamped, 7½x14 ins. **Stirrups**—Leather 2 ins. wide to lace ox bow stirrups. **Rings**—Leather covered, cinch strap, 1½ in. wide. Two 14-strand cinches. **Leather**—Full russet. Shipping wt., about 36 lbs.

31 K 737B Price, each.... **$41.80**

Texas Saddle

An Extra Good Value



Double Texas rigged Saddle, large bulge bound cantle. Strongly made of good materials. Felt lined.

Tree—14 ins.; 10-inch bulge horn; steel fork. **Seat**—full; fancy border stamped. **Skirts**—20 ins., felt lined. **Fenders**—8 ins. wide, 14 ins. long; border stamped. **Stirrup Leathers**—2 ins. to lace. **Tie Straps and Offstraps**—1½ in. **Two Cinches**—15 strand cotton. **Texas Stirrup**—Ox Bow. **Full russet leather.** Shipping wt., 30 pounds.

31 K 735B Price, the outfit..... **$21.00**

Boys' or Girls' Cowboy Saddle

Teach the Youngster to Ride—
A Wholesome, Health-making Exercise

Will fit Ponies measuring 11 to 13½ hands

Well made in every way. **Tree**—11½ inches, full covered fleece wool lined bars. **Seat**—Full kip. **Skirts**—Embossed, 11½ inches. **Fenders**—Embossed, 10¼ inches long, 5⅛ inches wide. **Stirrup Leathers**—⅞ in. **Tie Straps**—⅞ in.; 2 cotton Girths with leather covered stirrups. Saddle all russet. Shipping wt., about 15 pounds.

31 K 743B Price, each **$11.98**

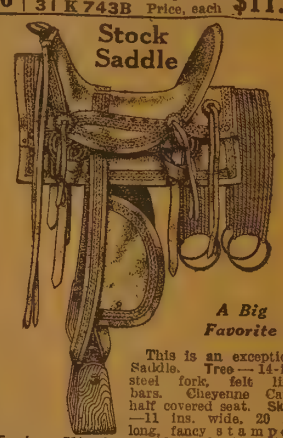
McClellan Saddle

Officers' Style Easy Riding Qualities

McClellan Officers' style. Full equipment of coat and blanket straps. **Tree**—16 ins. McClellan. **Seat**—Open. **Skirts**—16 ins. **Fender**—14½ ins. long; 7½ ins. wide. **Tie Straps and Rigging**—1 in. **Girth**—One 15-strand cotton. **Stirrups**—3 ins. covered. **Trimming**—Bronze. **Leather**—All russet. Shpg. wt., 32 pounds.

31 K 744B Price, each..... **$16.75**

Stock Saddle



A Big Favorite

This is an exceptional Saddle. **Tree**—14-inch steel fork, felt lined bars. Cheyenne Cantle half covered seat. **Skirts**—11 ins. wide, 20 ins. long, fancy stamped. **Fenders**—7½ ins. wide, 12 ins. long. **Stirrup Leathers**—1½ ins. embossed. **Tie Straps**—1 in. **Cinches**—two 15-strand cotton. **Stirrups**—4-in. sawed Texas. **Leather**—Russet. Shipping weight, 20 pounds.

31 K 738B Price, each.... **$15.80**

Buffalo Hair Cinch

Made of twenty-three strand, soft gray Mexican hair with woven center and ends to hold strands together. Shipping weight, 10 ounces.

31 K 752 Price, each..... **50c**

Heavy Corded Web Girth

Ring style, 3 inches wide with rings. Shipping weight, 7 ounces.

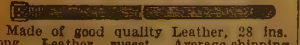
31 K 751 Price, each..... **21c**

Fancy Saddle Girth

3 inches wide with 1¼-inch buckles. Shipping weight, 7 ounces.

31 K 750 Price, each..... **22c**

Leather Stirrup Straps

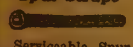


Made of good quality Leather, 28 ins. long. Leather, russet. Average shipping weight, about 10 ounces.

4 sizes wide

31 K 765	⅞ in. wide.	Pair.	**$1.28**
31 K 766	1 in. wide.	Pair.	**1.46**
31 K 767	1⅛ in. wide.	Pair.	**1.68**
31 K 768	1¼ in. wide.	Pair.	**1.88**

Spur Straps



Serviceable Spur Straps with Brass buckle. Shpg. wt., 6 ounces per pair.

31 K 785 Price, per pair.... **45c**

Leather curb strap. Buckles on end for fastening to bit. 22 inches long, ⅞ in. wide. Shpg. wt., 6 ozs.

31 K 786 Price, each **29c**

Star Blanket

31 K 795 Made of good quality Felt, 24 ins. long and 16 ins. deep from the center, with fancy red scalloped border stitched on. Shipping weight, about 1 pound.

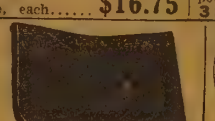
Price, each..... **94c**

31 K 798 Pony Saddle Pad. Same quality felt as our 31 K 795. 19 ins. long; 15 ins. deep from center. Shipping weight, 1 pound. Each.. **91c**

Anti-Gall Pad

Anti-Gall Saddle Pad. Made of thick, soft, porous gray fiber. Slides reinforced with heavy brown duck. Length, 24 inches; depth, from center, 17 ins. Shipping weight, 2¾ lbs.

31 K 797 Price, each..... **$1.47**



Felt Saddle Pads

Good quality Gray Wool Felt, heavy in the center and tapers toward edge. Length, 24 ins.; width from center, 17 ins. Shipping weight, about 2½ lbs.

31 K 796 Price, each..... **$2.42**

Martingales

Flat russet leather martingale, looped rings and buckles, ⅞-inch straps. Rings stitched on. Shipping weight, 12 ounces.

31 K 1121 Price, each.... **$2.68**

Breast Plate for driving harness, made of fine quality flat russet leather, nickel rings and buckles. Looped ends, allowance for adjustment. Strongly stitched. ⅞-in. strap. Shipping weight, 1 lb.

31 K 1120 Price, each.... **$2.98**

Hardwood bent stirrup, frame covered with russet leather. 4-in. tread. 1¼-in. stirrup strap. Sh. wt., 3 lbs.

31 K 792 Per pair **$1.98**

Metal Stirrup, X. C. plated. Inside, 4 ins. Will take 1¼-in. strap. Weight, 1 lb.

31 K 791 Per pair.. **51c**

Wood Stirrup. 4¾ ins. deep, 5½ ins. wide, 4-in. tread. Shpg. wt., 1¾ lbs.

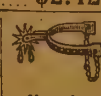
31 K 790 Per pair **51c**

English Solid Brass Spur complete with straps. Sh. wt., 8 ozs.

31 K 776 Per pair **85c**

Cavalry Spur. Solid nickel; ⅜-inch rowel. Shpg. wt., 1 lb.

31 K 775 With strap. Per pair. **$3.35**



Mexican Spur. Malleable iron. ⅞-in. rowel. Shpg. wt., 8 ozs.

31 K 777 Per pair.. **52c**

Russet Reins

Made of oiled russet leather. Looped at ends. Leather - nickel buckle. Buckle firmly looped and stitched to end of reins, 8 feet long. Shipping weight, about 1 pound.

31 K 855 Price, pair, ¾ in. **$1.15**
31 K 856 Price, pair, ⅞ in.. **$1.26**

31-K 760

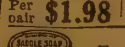
31 K 761

Average shipping weight, 8 ounces.

31 K 760 36 inches long. Thorough Rawhide, wrist loop.

Price, each..... **84c**

31 K 761 Excellent Riding Whip. Rawhide jockey, hogskin handle. Length, 30 inches. Price, each..... **$2.65**



Saddle Soap

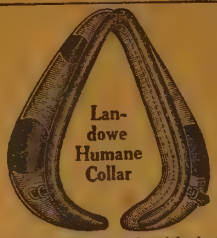
Frank Miller's Saddle Soap. Used for cleaning leather. Gives it a good polish. Put up in ½ and 1 pound cans. Shpg. wt., ¾ lb.

31 K 815 Price, ½-lb. Can..... **23c**
31 K 816 1-lb. Can. Shipping weight, 24 ounces. Price..... **33c**

Riding Cuffs

Fancy embossed leather riding cuff. Has fastener at wrist. Will give very good service. Shipping weight, 14 ounces.

31 K 810 Price, pair..... **$1.48**



Outside is covered with heavy white duck; stuffed with clean cotton fiber, which will not become hard or lumpy. It is reinforced with split leather at the top and underneath the draft hooks. Open at bottom. This collar is especially recommended for spring work when the horses' shoulders are soft and tender. Shpg. wt., 7 lbs. Sizes: 17 to 22 inches. State SIZE.

3I K 1177 A Price, each..... $1.16

Faced with ticking, and well stuffed. The back and rim are made of good quality split leather. Pressed leather top pad. Outer edges double stitched. Average draft, about 16½ inches. State SIZE. Shpg. wt., 9 lbs.

3I K 1165 A Sizes: 17 to 21 ins. Price, each.... $2.48

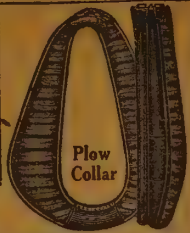
3I K 1166 A Sizes: 22 and 23 ins. Price, each..... $2.63

3I K 1167 A Size: 24 ins. Price, each..... $2.85

Jumbo Collar

Jumbo Plow Collar, Black split leather back and rim. Strong tick facing, well stuffed. Draft, about 16 inches. Patent fasteners. An excellent collar for horses with tender necks and shoulders. State SIZE. Shpg. wt., 9 lbs.

3I K 1180 A Sizes: 18 to 23 ins. Price, each... $2.24



Ticking Faced Plow Collar. The back and rim are made of black split leather with ticking face. Well stuffed. Leather top pad and patent fastener. Average draft about 14½ inches. A serviceable collar for the price. State SIZE desired. Shpg. wt., 8 pounds.

3I K 1178 A Sizes: 16 to 20 ins. State SIZE. Price, each..... $1.93

3I K 1179 A Sizes: 21 and 22 ins. State SIZE. Price, each.. $1.90

Split leather back and rim. Russet leather facing. The outer edges are double and stitched with thong and heavy thread. Pressed leather top pad. Average draft, about 15½ inches. Patent fastener. State SIZE. Shpg. wt., about 7 lbs.

3I K 1169 A Sizes: 17 to 21 ins. Price, each.... $3.15

3I K 1170 A Sizes: 22 and 23 ins. Price, each..... $3.20

3I K 1171 A Size: 24 ins. Price, each..... $3.50

Velvet chrome facing, curled hair, canvas lining. Back and rim heavy black kid. Heavy rim, 1 inch extension all around. Thong stitched sole leather pad. Double grip fastener. Draft, 15 in. State SIZE Shpg. wt., 9 lbs.

3I K 1172 A Sizes: 17 to 21 inches. Price, each..... $5.90

3I K 1173 A Sizes: 22 and 23 inches. Price, each..... $6.15

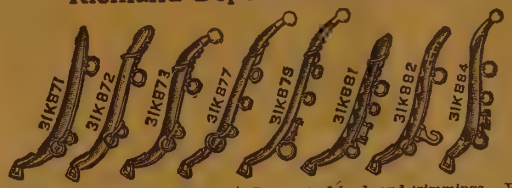
3I K 1174 A Size: 24 inches. Price, each..... $6.35

This collar is made of the best grain leather. Padding, Hair Face with heavy tick lining. It is sewed around and middle seamed with thong, making a thong sewed collar throughout, sole leather pad. Peek Top. Draft, 16 inches. Equipped with patent fastener. Shpg. wt., 9 lbs.

3I K 1184 A 19-21 ins. Price, each..... $4.45

3I K 1185 A 22, 23-inch. Price, each..... $4.65

Richland Dependable Hames



3I K 871 Low Top Clip Hames. Japan steel back and trimmings. Wood part painted black. 17 to 22 inches. Shpg. wt., per pair, 4½ lbs. Give SIZE. Price, per pair..... $1.05

3I K 872 Steel Over Top Wood Hames with Japan steel back and trimmings. Wood painted black. Trade No. 450. Adjustable loops at top. Fits collars up to 22 inches. Shpg. wt., per pair, about 5 lbs. Price, per pair. $1.35

3I K 873 XC Ball Tops, Steel Bound, Clip Draft, Wood Hames. A very popular style of hames. Wood part painted red. Japan steel back and trimmings. Shpg. wt., 6 lbs. (Trade No. 92.) Sizes, 19 and 20, Price, per pair..... $1.98

3I K 874 XC Ball Tops, Sizes 21 and 22. Same style as 31 K 873. Shpg. wt., 6 lbs. per pair. Price, per pair..... $2.15

3I K 875 Brass Ball Top Clip Hames, same style as 31 K 873. Sizes, 19 and 20. Shpg. wt., 6 lbs. per pair. Price, per pair..... $2.25

3I K 876 Sizes, 21 and 22. Same style as 31 K 875. Shpg. wt., 6 lbs. per pair. Price, per pair..... $2.35

3I K 877 Steel Brass Ball Top, Clip Draft. (Trade No. 500). Has 1½-inch brass ball tops. Will fit 19 to 20 inch collars. Shpg. wt., about 9 lbs. per pair. Price, per pair..... $2.25

3I K 878 Sizes, 21-22-inch. Same style as 31 K 877. Shpg. wt., 9 lbs. Price, per pair..... $2.35

3I K 879 Brass Ball Top Hames. Same style as above, but with bolt draft. No. 6 will fit 19-20-inch collars. Shpg. wt., 9 lbs. Price, per pair $2.43

3I K 880 Same style as above. Will fit 21-22-inch collars. Shpg. wt., 10 lbs. Price, per pair..... $2.53

3I K 881 Steel Overtop Wood Hames. (Trade No. 450.) Bolt, Extra Ring Draft, Combination Top Loops for 18-22-inch collars. Shpg. wt., 5 lbs. Price, per pair..... $1.43

3I K 882 Virginia Hook Hames. Hook on back. Mortise Top Loop. Damascus finish, for 17-21-inch collars. Shpg. wt., 5 lbs. Price, pair.. $1.85

3I K 883 Single Hook and Ring on Side, Damascus finish. 3 wire loops. Shpg. wt., 5 lbs. Price, per pair..... 88c

3I K 884 Heavy Concord Bolt Hames, with brass ball top, mortised loops 2½-inch bolt. Extra heavy ⅞x1-inch steel plate on back. Painted red. Will fit large size collar. Shpg. wt., 10 lbs. Price, per pair (for 1 horse).. $3.45

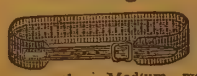
Back made of No. 1 collar leather. Rim made of split leather, heavy ticking face with curled hair underneath. Thong stitching. Patent fastener. Cased back, with heavy rim. Average draft, 17 ins. Shpg. wt., 11 lbs. Mention SIZE.

3I K 1181 A Sizes: 18 and 19 inches. Price, each..... $6.05

3I K 1182 A Sizes: 20 and 21 ins. Each..... $6.30

3I K 1183 A Sizes: 22 and 23 ins. Each..... $6.55

Surcingle



Fancy web. Medium weight fancy colored webbing, 2½ inches wide, 1-inch billet and buckle; 5 feet 4-in. of web with 17-inch billet. Shpg. wt., 6 ozs.

3I K 596 Price, each..... 29c

3I K 597 Extra heavy, 3½ ins. wide, 1¼ in. billet and buckle, 7 feet long including billet. Shpg. wt., 8 ozs. Price, each..... 38c

Web Neck Halter

Russet, 1¼ ins. wide, 9 feet long with snap. Has twice the breaking strenght of a leather strap. Our price is, indeed, very low for this strong halter. Shpg. wt., about 14 ozs.

3I K 587 Price, each..... 42c

Cow Bell Strap

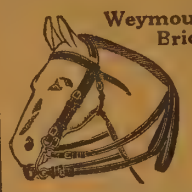
Japanned buckle. Leather, 6 ft. long. Shpg. wt., 6 ozs.

3I K 591 Width, 1 in. Each..... 30c

3I K 592 Width, 1½ in. Shpg. wt., 8 oz. Each.... 45c

3I K 593 Russet Web Cow Bell Strap, 1½ ins. wide, 36 ins. long. Leather bell safe, malleable buckle. Metal tipped ends. Shpg. wt., 4 ozs. Each..... 18c

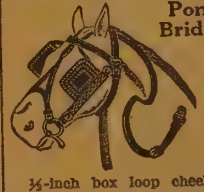
Weymouth Bridle



This style is known as the full English Bridle, a favorite, made with ¾-inch double cheeks, ¾-inch reins, nickel buckles and bits. A very handsome bridle, in russet only. Sure to give satisfaction. Shpg. wt., 2¼ lbs.

3I K 1045 Price, each..... $5.35

Pony Bridle



½-inch box loop cheeks, ¾-inch overcheck. A neat bridle that is sure to please you. Shpg. wt., 2¼ lbs.

3I K 1065 Black Price, each..... $3.15

3I K 1066 Russet Price, each..... $3.85

Web Bridle

A neat, strong web bridle at an exceptionally low price. Made of strong fawn webbing, 1 inch wide. Has ½-inch front and throat-latch adjustable. Port bit and web curl strap. Shipping weight, 1¼ lbs.

3I K 1040 Price, each..... 73c

Parkway Bridle

A russet bridle with ¾-inch solid round cheeks, round front and ⅝-inch reins, 4 feet long with round ends, ½-inch throat latch, nickel center bar buckles and nickel-plated port bit. Russet only. Shipping weight, 2 lbs.

3I K 1043 Price, each..... $3.75

Texas Riding Bridle

Has single adjustment on crown. Continuous piece. Checks, ⅞ inches wide; ¾-inch rein; 4 feet long, ½-inch throat-latch furnished with X. C. buckles and port bit. Shipping weight, 2¼ lbs.

3I K 1041 Black. Price, each.. $2.10

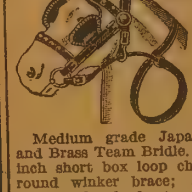
3I K 1042 Russet Price, each..... $2.28

Russet Pony Riding Bridle

Russet Bridle, ¾-inch Russet Leather Cheeks adjust at top and bottom. Nickel-plated bent heel wire buckles, leather loops. Suitable for all sizes of ponies or for cob horses. Shipping weight, about 1½ lbs.

3I K 1046 Price, each..... $2.98

Express Bridle



Medium grade Japanned and Brass Team Bridle. ¾-inch short box loop cheeks, round winker brace; short round side checks to check over hames; sensible blinds; spotted front and nosebands; with heavy wrought bit. Shpg. wt., about 3½ lbs.

3I K 1053 Price, each..... $3.95

Buggy Bridle

3I K 1061 Imitation rubber trimmed, ¾-inch box loop cheeks; patent leather blinds; round winker brace. 1-inch overcheck; folded crown piece; patent leather front, nickel-plated half cheek snaffle bit. Shipping weight, 2¾ lbs. Price, each..... $4.10

3I K 1062 Same style cut large for big horse, five-buckle overcheck. Shpg. wt., 3 lbs. Each.. $4.55

Buggy Bridle

Japanned Buggy Bridle. Cheeks ⅝-inch doubled and stitched, patent leather blinds, round winker stay, three-buckle overcheck. Shipping weight, about 2 lbs.

3I K 1064 Price, each..... $2.55

Team Bridle

Japanned Team Bridle. ⅞-inch flat doubled and stitched cheeks, cup-shaped blinds, flat side check to loop over hames, flat winker brace. Shipping weight, about 3 lbs.

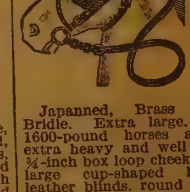
3I K 1051 Price, each..... $2.15

Buggy Bridle

Side Check Buggy Bridle, imitation rubber trimmed, ⅝-inch box loop cheeks, patent leather blinds, round winker brace. ⅝-inch round side checks, folded crown piece, ⅝-inch patent leather front, nickel-plated half cheek bit. Shipping weight, 2¼ lbs.

3I K 1060 Price, each..... $4.35

Express or Team Bridle



Japanned, Brass Team Bridle. Extra large. Fits 1600-pound horses and is extra heavy and well made. ¾-inch box loop cheeks, with large cup-shaped harness leather blinds, round winker braces, spotted face piece and front, flat side checks to rein over hames. Shipping weight, about 4 lbs.

3I K 1054 Price, each..... $4.55

Brass Express Saddle
Heavy harness leather skirts, 4 ins. wide, full padded. 1¼-inch double and stitched swinging bearers. Brass trimmed. Wt., 9 lbs.
31 K 902 Price, each... $9.60

Buggy Saddle
Low priced Buggy Saddle, 2½-inch wide. Patent leather skirt, lined with enameled drill. ⅞-inch stitched shaft bearers. Japan trimmed. Weight, 3 lbs.
31 K 898 Price, each.... $3.15

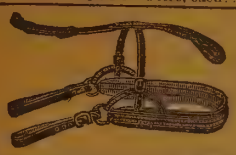
Buggy Saddle
Extra Heavy, 3½-inch patent leather jockey. Single strap skirts, 1¾-inch double and stitched bearers. Enameled leather stuffed pad. Shpg. wt., 4½ pounds.
31 K 900 Price, each.. $5.30

Buggy Saddle
High grade, 3¼-inch flexible steel tree. Heavy skirts. Enameled patent leather, stuffed pad. 1-inch doubled, stitched bearers. Shpg. wt., 4 lbs.
31 K 899 Price, each.. $4.50

Pony Strap Saddle
2¾-inch flexible, 1¾-inch skirt, ⅞-inch bearers. Shpg. wt., 3 lbs.
31 K 896 Black Saddle
Price, each.... $3.85
31 K 897 Russet Saddle. Price, ea. $4.95

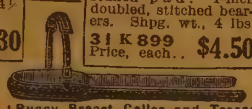
Padded Lace Buggy Saddle. Straight pattern. Size, 3-inch full padded. Patent leather skirts and jockey. Stuffed pad, laced in. 1-inch swinging bearers. Shpg. wt., 4½ lbs.
31 K 901 Price, each.... $7.65

Team or Single Farm Harness Pads. Harness leather stuffed pad bottoms, harness leather housing, single strap lay with market strap. Japan hook and terrets. Shpg. wt., 3½ lbs.
31 K 903 Price, each.... $2.98



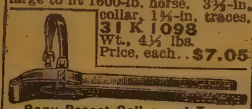
Buggy Breeching for Small Horses
Folded style with ¾-inch straight layer. Side straps, ¾-inch; hip strap, ⅝-inch; turnback, ¾-inch, with stuffed crupper sewed on. Japan trimmed. Shipping weight, 2½ pounds.
31 K 1011 Price, complete. $3.25
31 K 996 Side Straps only.
Price, per pair.... $0.75
31 K 946 Turnback Strap only .80
31 K 966 Hip Strap only.... .25
31 K 971 Breeching Body only. 1.55

Pony Breeching. Made with single strap body, 1⅜-inch wide. 3-ring stay, securely stitched to body. ½-inch hip. Turnback, ¾-inch, side straps, ⅝-inch. Price does not include side straps, except for the russet leather. Shipping wt., 2 lbs.
31 K 1019 Black Breeching
Price, complete.... $4.45
31 K 1002 Black side straps. Price, pair.. $1.10
31 K 1020 Russet Breeching, complete. $3.75



Buggy Breast Collar and Traces. Collar, 1⅞-in. fold, ⅞-in. layer. Traces, 1 in. wide, doubled and stitched. Shipping wt., 3 lbs.
31 K 1095 Each Breast Collar and Traces; similar to 31 K 1095, 3-in. single strap, 1¼-in. neck strap, ¾-in. box loop up tugs. Traces 1¼-in. single strap, stitched to collar. Wt., 3½ lbs.
31 K 1096 Price, each.. $6.15

Double Neck Buggy Breast Collar and Traces. Traces 1¼-in. single strap, stitched to collar. Tugs curved, C-in., strap forked. Shpg. wt., 3½ lbs. $6.20
31 K 1097 Price, ea..
Similar to above, but extra large to fit 1600-lb. horse. 3¾-in. collar, 1½-in. traces.
31 K 1098 Wt., 4½ lbs. Price, each.. $7.05

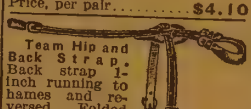


Pony Breast Collar and Traces. Single strap 1¼-in. breast collar. 1-in. traces. Shpg. wt., 2½ lbs.
31 K 1099 Black. Ea... $3.15
31 K 1100 Russet. Ea.. $3.35

Extra Large Breeching Note Sizes

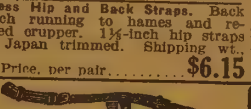
Single Farm Breeching, Adjustable to Fit Large Size Horses. Heavy folded with layer, ⅞-inch up tugs with loops. Hip strap, ⅞-inch double. Turnback, 1½-inch. Side straps, ⅞-inch. Shipping weight, 5 lbs.
31 K 1022 Price, each, complete.... $5.40
31 K 1004 Side Straps. Price, pair.... $1.35
31 K 957 Hip and Back Strap only. Price, each..... $1.85
31 K 979 Breeching Body only. Price, each $2.30

Back Pads for Team Harness. Made of 3-inch single ply harness leather with felt lining. Loop on top and buckle and billet at ends to buckle around traces. Shipping weight, about 3 lbs.
31 K 905 Price, per pair..... $4.10



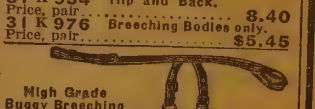
Team Hip and Back Strap. Back strap 1-inch running to hames and reversed. Folded crupper to buckle on. Cooper trace carriers. Hip straps, 1-inch. Japan trimmed. Shipping weight, 5 lbs.
31 K 959 Price, per pair..... $4.55

Team Hip and Back Strap. 1-inch back strap running to pad and reversed. ⅞-inch hip straps with Cooper trace carriers. Japan trimmed. Shipping weight, 4¾ pounds.
31 K 958 Price, per pair..... $5.25



Plow Harness Hip and Back Straps. Back straps 1½-inch running to hames and reversed. Folded crupper. 1½-inch hip straps with snaps. Japan trimmed. Shipping wt., 5½ pounds.
31 K 960 Price, per pair..... $6.15

Team Breeching. Heavy folded body with 1¼-inch layer, ¾-inch up tugs with small leather loops and safes, back straps 1-inch running to short tug at trace buckle and from there to ring on hame. Hip straps, ⅞-inch. 1¼-inch spotted layer on hip safe. Side straps, 1-inch. Shipping weight, 12 pounds.
31 K 1015A Breeching, complete. Price, set (2). $18.95
31 K 992 Lazy Straps with Safes. Price, per set (4)..... $1.90
31 K 1001 Side Straps (4). Set. Price..... 3.60
31 K 954 Hip and Back. Price, pair..... 8.40
31 K 976 Breeching Bodies only. Price, pair..... $5.45



High Grade Buggy Breeching
1¾-in. heavy single strap body, three-ring breeching brace with ¾-inch box loop up tugs. Turnback ⅞-inch scalloped crupper stitched on. Hip strap, ¾-inch. Side straps, ⅞-inch. Imitation rubber trimmed. Shipping wt., 3 pounds.
31 K 1013 Price, complete. $6.10
31 K 998 Side Straps (2). Price..... $1.38
31 K 947 Turnback only. Each 1.68
31 K 967 Hip Strap only. Price, each..... .45
31 K 973 Breeching Body. Price, each..... 2.68

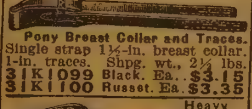
Double Hip Buggy Breeching
Heavy single strap body 1¾-inch wide, ¾-inch box loop up tugs. Hip strap ⅝-inch scalloped and forked. Turnback ⅞-inch scalloped with flax-seed crupper stitched on. Side straps, ⅞-inch. Imitation rubber trimmed. Shipping Weight, 3 lbs.
31 K 1012 Price, complete. $5.25
31 K 997 Side Straps (2).. $1.00
31 K 951 Turnback and Hip only. Price, each..... $2.50
31 K 972 Breeching Body only 2.10

Team Breeching. Folded body with layer. Box loop up tugs, back straps, ⅞-inch double, running to ring on hames. Hip straps, ⅞-inch. Side straps, ¼-inch; lazy strap, ⅞-inch. Shipping wt., 13 lbs.
31 K 1016A Breeching, complete. Price, per pair..... $14.70
31 K 991 Lazy Straps (4).. $1.70
31 K 1000 Side Straps (4).. $2.90
31 K 953 Hip and Back Straps. Price, per pair..... $5.45
31 K 978 Breeching Bodies only. Price, per pair..... $4.65

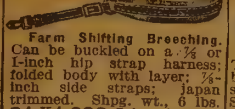
A Very Substantial Breeching

Southern Wagon Breeching. Single strap Breeching, of good solid leather. Bodies are single strap made Southern style, 3 inches wide; the quarter straps are 1½ inches wide and the back straps 1½ inches wide; lace strings at hame. Shipping weight, 8 pounds.
31 K 1017 Price, per pair..... $9.55

Farm Shifting Breeching. Can be buckled on a ⅛ or L-inch hip strap harness; folded body with layer; ⅞-inch side straps; japan trimmed. Shpg. wt., 6 lbs.
31 K 923 Price, pair, for 2 horses.... $6.95



Heavy Team Hook and Terret Pads
Top folded with lay and billets to buckle around traces. Double swell spotted inserted housings. Stuffed with hair. Japan trimmed. Shpg. wt., 7½ lbs.
31 K 904 Price, pair. $7.50



Hames and Traces. For small horses. 3¼-lb. full japanned iron buggy hames. ⅝-in. hame straps. 1-in. double and stitched traces with two dart holes for adjustment, 6 feet long. Shipping weight, 6 pounds.
31 K 1090 Price, pair..... $3.85
31 K 1091 Similar to above, but with imitation rubber hames and made of better material with flange at end of trace at hame clip. Price, pair..... $4.28

Buggy Hames
Shipping weight of hames, 3 pounds.
31 K 885 Full Japanned Buggy Hames. Price, pair..... 75c
31 K 886 Hames with Japanned Body. Nickel wire terrets and nickel draft eyes. Pair..... $1.60
31 K 887 Hames with Japanned Body, brass wire terrets and brass draft eyes. Price, per pair..... $1.68

Buggy Hame Tugs only with box-loops and patent clips ready to attach to hames. Two sizes. Shpg. wt. of hame tugs, 1½ lbs.
31 K 911 Hame Tugs only with imitation rubber buckles.

Size of buckle..	1¼ in.	1¼ in.
Pair	$1.35	$1.43

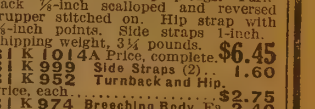
31 K 912 Hame Tugs only with nickel buckles.

Size of buckle	1⅛ in.	1¼ in.
Pair	$1.58	$1.69

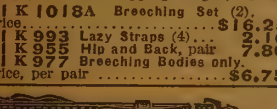
31 K 913 Hame Tugs only with brass buckles.

Size of buckle	1⅛ in.	1¼ in.
Pair	$1.57	$1.68

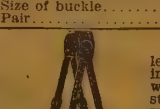
Extra Heavy Breeching for Express or Farm Wagon Harness
Heavy fold 1½-inch layer, ¾-inch box loop up tugs. Hip straps ¾-inch forked. Turnback 1-inch with 1¼-inch crupper fork, crupper fork buckled on. Holdback straps 1 inch wide, 54 inches long. Shpg. wt., 6 lbs.
31 K 1021 Price, each, complete..... $6.55
31 K 1003 Side Straps. Pair..... $1.55
31 K 956 Hip and Back. Each..... $2.48
31 K 978 Breeching Body. Each..... $3.00



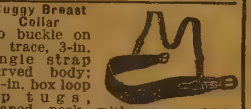
Team Traces. Four and one-half feet long with 3½ feet stage chain clipped on. Furnished in 1¾ or 2-inch belly band billets. Shpg. wt., 18 lbs.
31 K 1080A Traces. 1¾-inch. Price, set (4).... $13.25
31 K 1081A Traces. 2-inch. Price, set (4)..... $14.30



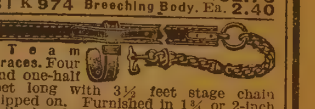
Team Traces. Extended to clip to hames. Heavy 3-ply, doubled and stitched, 6 ft. long, large, safe at hame end, 18-inch swivel hook heel chain, belly-band billets, 1¼ inches. Shipping weight, 20 pounds.
Price, set (4)
31 K 1082A Heavy 1½ ins. $15.25
31 K 1083A Heavy 1¾ ins. 17.75



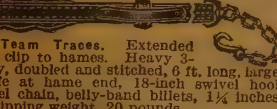
Heavy and Medium Express Collars
Heavy Express Collar. Folded harness leather, 2¾ ins. wide, 1½-in. layer, 36 ins. long. Box loop trace tugs, 1½-in. wire trace buckles; ⅞-in. box loop neck strap tugs; neck strap folded, 2½ ins. wide, 1¾-in. layer; two ⅞-in. double and stitched points; with neck strap terrets; brass trimmings. State Which. Shipping weight, 5 pounds.
31 K 1162 Price..... $7.58



Buggy Breast Collar
To buckle on to trace, 3-in. single strap curved body; ¾-in. box loop up tugs, shaped neck with strap, ¾-in. points. 1¼-in. buckles and box loops at end. Imitation rubber trimmed. Shipping weight, 2½ pounds.
31 K 1160 Price..... $3.65

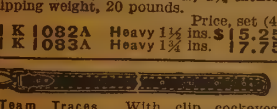


Team and Express Traces. With triangular cockeyes. Made of selected leather, 3-ply, two rows stitching. Can furnish 1 pair at half price of sets. Shipping weight, 1¾ pounds.
31 K 1073A Traces. 1¼ inch by 6 feet 6 inches. Price, set (4).. $11.50
31 K 1074A Traces. 1½ inch by 6 feet. Price, set..... (4) $13.00

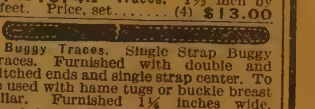


Team Traces. With clip cockeyes. Good, serviceable 1¼-inch, 6 ft. long, doubled and stitched traces at a low price. Shipping weight, 12 pounds.
31 K 1072A Price, set (4)..... $10.50
Can furnish 1 pair at half above price.

Traces and Backers. Extra heavy, of specially selected leather, with dee in center, 2-inch front end, with copper rivets at each end. Has three row stitching. Rear part 1¾-inch with two row stitching. 30-inch hook heel chain. Side straps 1½-inch. Yoke straps 1¼-inch. Jockey straps 1-inch. Belly band billets, 1½ inches. Safes on side and yoke straps. For bolt hames. Shipping weight, 38 lbs.
31 K 1086A Price, set (4)..... $35.85



Buggy Traces. For Clip Hames to attach on to hames. Traces are single strap, reinforced at each end, 1¼ inches wide, 6 feet 4 inches long. Shipping weight, about 6 pounds.
31 K 1071 Price, per pair. $3.90



Buggy Traces. Single Strap Buggy Traces. Furnished with double and stitched ends and single strap center. To be used with hame tugs or buckle breast collar. Furnished 1¼ inches wide, length 6 feet. Shpg. wt., 6 lbs.
31 K 1070 Price, pair... $3.30

Shaft Tugs

⅞-in. doubled and stitched with japanned buckle and leather loop. Will give you good service. Shpg. wt., about 8 ounces.

31 K 921 Price, pair... **55c**

Buggy Shaft Tugs

1-inch doubled and stitched with box loops and imitation rubber buckles, ⅞ - in. dee belly band billets. Shpg. wt., 12 ozs.

31 K 922 Price, per pr. **$1.35**

31 K 923 Same quality, extra large. Shpg. wt., 16 ounces. Per pair..... **$1.57**

Express Shaft Tugs

Can be used on double harness or for use as single. Slip belly band billet through lower loop and market strap through upper loop, 1¼ ins. wide. Shpg. wt., 12 ounces.

31 K 924 Price, pair..... **98c**

Shaft Tugs

1¼ - in. japanned buckle with leather loop, 1-in. dee and billet. Very strong and will stand hard use. A good value at our price. Shpg. wt., about 1¼ lbs.

31 K 925 Price, pair..... **$1.73**

Pony Shaft Tugs

⅞-in. doubled and stitched with dee and billet. Shpg. wt., 8 ounces.

31 K 926 Black Price, per pair.. **$1.15**

31 K 927 Russet Price, pair.. **$1.35**

Hame Tugs

Folded Hame Tugs, 1½-in. layer; japanned double grip trace buckle; 1½ ins. wide, 18 ins. long, 1¼ -in. belly band billets for clip hames. Shipping weight, 3 lbs.

31 K 914 Price, per pair..... **$2.35**

Team Hame Tugs

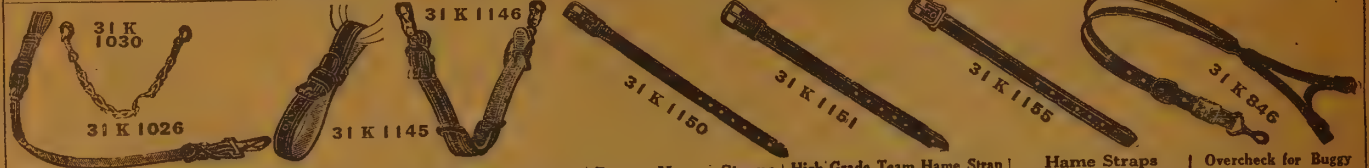
Solid 3-ply doubled and stitched. Japanned double grip trace buckles; 1¼ ins. belly band billets, 1½ ins. wide, 18 ins. long for clip hames. Shipping weight, 3 lbs.

31 K 915 Price, per pair..... **$3.35**

Hame Tugs

Express or Spring Wagon, 1¼ ins. doubled and stitched, three ply with box loop. Brass plated doubled grip traces buckles. For clip hames. Shpg. wt., 1½ lbs.

31 K 916 Price, pair..... **$2.10**



Jockey Side Straps,

1¼ ins. wide, 6 ft. long, snap at one end 12-inch jockey chains with snap at each end. Shpg. wt., 5 pounds.

31 K 1026 Pr., complete set of 4.. **$4.73**

31 K 1030 Jockey Chains only. Per set of 4..... **65c**

Breast Straps

Heavy 1½ inches wide, 4 ft. 8 in. long with Japanned roller buckles and long lap to protect the strap at buckle. Shpg. wt., 2½ pounds.

31 K 1145 Price, per pair. **$2.65**

Team Breast Straps

Made from two pieces of harness leather stitched together. 1½ inches wide; two heavy snaps and slide in center. Very strong. Shpg. wt., about 4½ pounds.

31 K 1146 Price, pair.... **$2.80**

Buggy Hame Straps

⅝ in. wide, 20 ins. long. Machine sewed, with leather loop. Good material. Will give satisfactory service. Shpg. wt., about 4 ozs.

31 K 1150 Price, each..... **24c**

High Grade Team Hame Strap

Good solid stock, machine stitched with two leather loops. Japanned roller buckles. Shpg. wt., 8 ozs.

31 K 1151 ⅞x31. Price, each..... **27c**

31 K 1152 1x21. Ea. **29c**
31 K 1153 1x24. Ea. **72c**
31 K 1154 1x30. Ea. **43c**

Hame Straps

Japanned Metal Loop Buckle, riveted with tubular rivets. Solid stock; will give good service. Shpg. wt., about 7 ounces.

31 K 1155 ⅞x24. Price, ea. **23c**

31 K 1156 1x21. Price, each..... **29c**

Overcheck for Buggy

Good heavy stock, smoothly finished with solid leather nose band; furnished with three imitation rubber buckles. Shipping wt., about 12 ounces.

31 K 846 Price, each..... **98c**

Spread Straps with Rings

⅝ in. wide, 24 ins. long doubled with red enameled Martingale rings. Japanned roller buckles and 3 slide loops. Shpg. wt., 8 ounces.

31 K 1105 Price, pair... **43c**

Pony Belly Band

Inside strap, 1⅜ ins., ⅞ in. buckle. outside strap, ¾ in. Buckle, ¾ in. Shpg. wt., 8 ounces.

31 K 931 Black. Price, each..... **$1.10**

31 K 932 Russet. Price, ea... **$1.18**

Buggy Belly Band

Single strap with ¾-inch billets. Griffeth style belly band. Japanned trimmed, serviceable and low priced. Shpg. wt., about 12 ounces.

31 K 933 Price, each.. **90c**

Buggy Belly Band

Inside folded 1¾ ins. with ⅞ in. buckle, outside single strap, ⅞ in. Buckle. ⅞ in., with two loops. Imitation rubber trimmed. Shpg. wt., 1 lb.

31 K 934 Ea. **$1.25**

31 K 935 Same, except with 2-in. body. Outside strap, 1 in. Buckles, 1 in. Price, each... **$1.45**

Team Belly Bands

Folded, 20 inches long, with 1¼-in. japanned buckles. Shpg. wt., 1½ lbs.

31 K 936 Price, per pr. **$1.60**

31 K 937 Extra heavy and large 2-in. fold with 1¼-in. layer. Price pair..... **$1.85**

Plow Belly Bands

Single Strap, 1½ in. wide, with Japanned Buckle. Strongly made to give long hard service. Listed at a very reasonable price. Sh. wt., about 1½ lbs.

31 K 938 Price, per pair.. **$1.98**

Express Belly Band

Double sliding body 2½ in. with 1¼ in. buckles, inside folded with 1¼ in. layer. Outside single strap, 1 inch. Buckle 1 inch attached to inside with loop. Japanned trimmed. Sure to please. Shpg. wt., 1 lb. 6 ozs.

31 K 939 **$1.70**

Chain Trace Pip

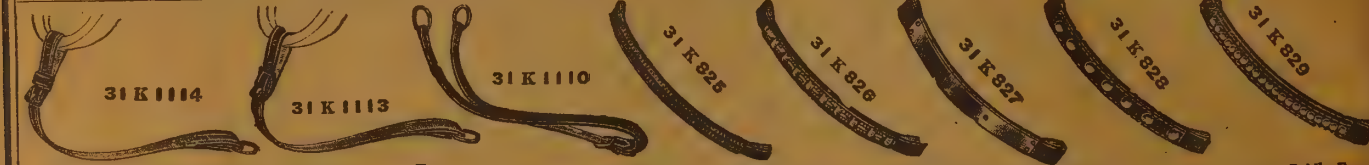
Made from substantial leather to cover chains in a chain trace harness. Three sizes. Shpg. wt., about 3½ pounds.

Price, per set of 4.

31 K 1035 **$3.30** 30 inch....

31 K 1036 36 in. Shpg. wt., 4 pounds. Price..... **$4.35**

31 K 1037 42 in. Shpg. wt., 4½ lbs. Price **$5.25**



Heavy Team Martingales

Fine grade leather 1⅛ ins wide. Japanned roller buckles. Rings for breeching straps. Reversed at each end. Shpg. wt., about 2 lbs.

31 K 1114 **$2.40** Price, pair.

Medium Grade Martingales

Made with Japanned bar buckles. A good value at our price. Shipping weight, about 1¾ pounds.

31 K 1113 Price, per pair..... **$1.65**

Buggy Martingales

1 - in. body with billet for adjusting at the rear end. ½-in. forks; genuine rubber rings. Shpg. wt., about 8 ounces.

31 K 1110 Price, each..... **$1.35**

Buggy Bridle Front

Made of solid harness leather. Raised center, leather wrapped. Will give satisfaction. ⅝ in. wide. Length, 15 ins. Shpg. wt., 4 ounces.

31 K 825 Price, each.... **37c**

Bridle Front, Fancy Chain

Leather Bridle Front 16 inches long, doubled and stitched with nickel chain set between two beads; ⅝ in. wide. Shpg. wt., 5 ounces.

31 K 826 Ea. **32c**

Team Front, Brass Band

Solid leather body with 13-inch solid brass plate. 17½ ins. long, 1 in. wide. Shpg. wt., 5 ozs.

31 K 827 Price, each... **34c**

Bridle Front

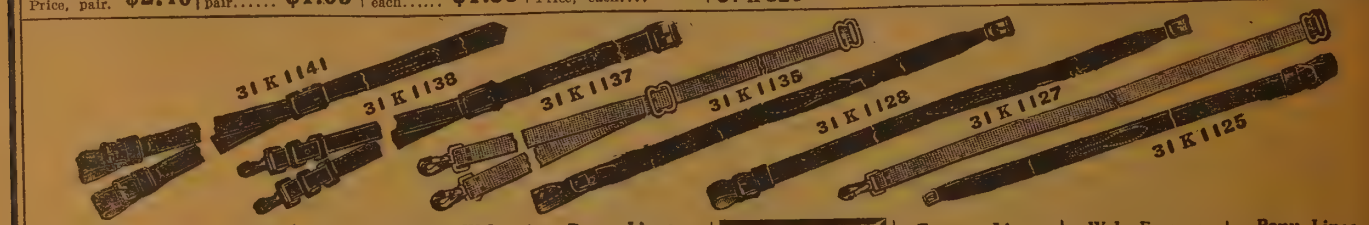
Solid Leather 1-in. wide doubled and stitched; ⅝-in. solid brass spots. Shpg. wt., about 5 ozs.

31 K 828 Price, each... **35c**

Leather Bridle Front Solid Harness

Heavy doubled and stitched, 1 in. wide, 17 ins. long, ½ in. solid brass spots. Shipping weight, 5 ounces.

31 K 829 Price, each... **40c**



Team Lines

High Grade Team Lines. Made of good solid stock. Japanned trimmed. Good quality throughout. Shpg. wt., 4 and 4⅞ lbs.

31 K 1141 Price, per pair, 1 in. wide, 16 ft. long. Price, pair. **$4.95**

31 K 1142 1 in. wide, 20 feet long. Price, pair.. **$6.15**

Team Lines

Good grade. Economy loops and snaps. Japanned trimmed. Shpg. wt., 4, 4⅝ and 5 pounds.

31 K 1138 Price, per pair, 1 in. wide, 15 ft. long.... **$5.20**

31 K 1139 Price, per pair, 1 in. wide, 18 ft. long.... **$5.95**

31 K 1140 Price, per pair, 1 in. wide, 20 ft. long.... **$6.40**

Russet Web Team Lines

Russet Web Team Lines. Made from heavy russet webbing, 1 in. wide, 20 ft. long with strong snaps, metal tipped ends, malleable tension slides. Shpg. wt., per pair, 2½ pounds.

31 K 1137 Price, per pair... **$1.55**

Buggy Lines

High - Grade Buggy Lines. Imitation rubber trimmed with spring billets; 13½ ft. long. Shpg. wt., 2½ pounds.

31 K 1135 1-inch front, 1⅛ hand part. Price, per pair.... **$3.75**

31 K 1136 Heavy 1⅛-inch throughout. Price, per pr.. **$4.05**

To Save This Book is to Save Money.

Economy Prices Good Until Feb. 15, 1923

Express Lines

1-in. throughout, 14 ft. long to loop in bit. You will not regret the purchase of these good lines. Shpg. wt., 3½ lbs.

31 K 1128 Price, per pair... **$3.65**

Web Express Lines

Made from heavy russet webbing 1 in. wide, 14 ft. long, fitted with snaps. Will prove satisfactory and serviceable. Shpg. wt., pair, 1 lb.

31 K 1127 Price, per pair..... **98c**

Pony Lines

⅞-in. throughout with buckle and loop. Well made and will give good service. Shpg. wt., 1½ lbs.

31 K 1125 Black Lines. Price, pr.. **$2.95**

31 K 1126 Russet Lines. Price, per pair.... **$3.45**

Customer Pays Delivery Charges on Every Article on This Page

Brown and White Collar Pad

Stuffed with a combination filling and covered with brown and white drill. Four rows of stitching. Four hooks to fasten pad to collar. An ideal pad to use with heavy work harness. Fully protects sore shoulders. 12-inch draft. State SIZE. Shpg. wt., 3 lbs.

31 K 601 18 to 20-inch. Price, each..... **60c**

31 K 602 21 to 25-in. Price, each.... **75c**

Humane Collar Pad

Stuffed with durable, sterilized, curled hair, which permits free circulation of air. Four rows of stitching and four hooks. This is a very desirable pad for preventing sore shoulders. Carried in 12-inch width only. Sizes, 20 to 24 inches. Do not fail to state SIZE wanted. Shpg. weight, 3 pounds.

31 K 603 Price, each..... **$1.17**

Anti-Gall Collar Pad

Made of soft, porous, gray fiber, which prevents galling. About ½-in. thick. Does not fill up collar as a stuffed pad. Well stitched. Best results on horses with sore shoulders. 11-inch width draft only. Sizes: 18 to 24 ins. State SIZE. Shipping weight, 2 pounds.

31 K 604 Price, each..... **46c**

Curled Hair Collar Pad

Clean, soft South American curled hair antiseptically treated. Body covered with wool front. Prevents its being pulled apart. A little more expensive than the others, but worth the difference. Gives great relief. 11-inch draft. Sizes: 19 to 23 inches. State SIZE. Shpg. wt., 2 lbs.

31 K 605 Price, each..... **$1.35**

Leather Top Pad

Made of thick porous gray fiber. Has straps and leather for fastening to harness. Shpg. wt., 6 ounces.

	Size	Price, each
31 K 616	4½x14 in.	**27c**
31 K 617	4½x18 in.	**31c**

Made same as above but without patent leather top.

	Size	Pr., ea.
31 K 618	4½x14 in.	**17c**
31 K 619	4½x18 in.	**19c**

Alaskan Hair Pad

Patent Leather Top with Corded Edge. Lined with long Alaskan hair, knit together, leaving it open and porous. Positively prevents galling. Suitable for all sizes of buggy saddles. Very neat in appearance and will give excellent service. Size, 4½x18 ins. Shpg. wt., 12 ozs.

31 K 624 Price, each.... **81c**

Graduated Express Pad

Made from gray felt. Heavy on both sides and tapers towards center and ends. Straps to fasten. 6x20 ins. Shipping weight, 10 ounces.

31 K 622 Price, each..... **76c**

31 K 623 7x20 ins. Shpg. wt., 10 ounces. Price, each..... **86c**

Gig Saddle Pad

Patent leather top; three-ply porous gray fiber bridge. Fitted with straps and buckles to fasten. 4½x18-inch size only. Shpg. wt., 10 ozs.

31 K 620 Price, each..... **45c**

Curled Hair Pad

Experience has shown that curled hair pads prevent gall and readily heal sore backs. To quickly heal afflicted parts, a small piece of cheesecloth should be placed under this style pad and washed daily. Shpg. wt., 6 ozs. 4½x18 inches.

31 K 626 Price, each..... **48c**

31 K 625 Same size with patent leather top. Shpg. wt., 9 ounces. Price, each..... **73c**

Collar Pads

Heavy gauge zinc. Measures 5½ inches in length and 4¾ inches in width, known as size No. 7. Two straps to attach pad to collar. Numerous small holes allow the air to circulate. Sanitary and easily cleaned. For average sized farm collar. Shipping weight, 1 pound.

31 K 607 Made of zinc, each.. **40c**

31 K 606 Made of solid sole leather. Shpg. wt., 6 ozs. Price, each..... **48c**

Collar Pad

Curled hair permits a free circulation of air and keeps the neck cool. The hair is securely woven together and linen stitched with strong linen thread. Has two leather straps to buckle around the collar. Size, 7x10 ins. Shipping weight, 8 ozs.

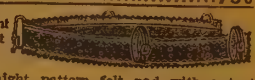
31 K 627 Price, each..... **38c**

Rump Pad

These pads are made of curled hair and securely woven and stitched with heavy linen thread. Prevents galling or chafing. Size, 7x10 inches. Shipping weight, 8 ounces.

31 K 641 Price, each..... **58c**

Straight Breast Pad



Straight pattern felt pad with patent leather front and felt lining. Fitted with five straps to buckle around breast collar. Furnished in one size only, 8x36 inches. Shipping weight, 10 ounces.

31 K 608 Price, each..... **59c**

New England Feed Bags

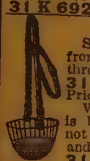
Strong, medium weight canvas. Leather bottom fastened with stitching. Ventilated. Eyelets, reinforced with leather. 3/16-inch seat rope head strap. Adjustable. Sh. wt., 14 ozs.

31 K 691 Price, each..... **87c**

White canvas, leather bottom; ventilated, rope head stall. Reinforced eyelets. Shipping weight, 14 ounces.

31 K 692 Price, each..... **$1.08**

Horse Muzzles



Steel wire; will prevent horse from cribbing. Head strap and throat latch. Shpg. wt., 1½ lbs.

31 K 686 Price, each..... **$2.15**

Wire netting; galvanized. Top is bound with sheepskin, so as not to chafe horse; head stall and throat latch. Wt., 2 lbs.

31 K 687 Price, each. **$2.85**

Elite Quarter Boot

High cut style, dark russet leather. Calfskin lined. Carried in medium size only. Shp. wt., about 13 ozs.

31 K 646 Price, per pair... **$4.25**

Interfering Boot

Will cure the most obstinate cases of interfering and usually in a week or ten days. Solid leather base, with leather knocker. Shpg. wt., 6 ozs.

31 K 649 Price, each..... **49c**

Shin and Ankle Boot

Body russet colored calfskin, with solid russet leather shield and kersey lined. Fitted with three straps. Shipping wt., 9 ozs.

31 K 647 Price, per pair... **$2.98**

Lou Dillon Ankle Boot

Soft calfskin, body unlined. Shield made of solid russet leather. Two rawhide straps, stitched on. Shpg. wt., per pair, about 7 ounces.

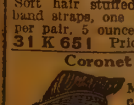
31 K 652 Price, per pair.. **$1.25**

Sidney Knee Boot

Felt lined knee boot, calfskin lined. Solid leather shield, lined with white felt. Soft hair stuffed pad on inside. Two band straps, one brace strap. Shpg. wt., per pair, 5 ounces.

31 K 651 Price, per pair.. **$3.25**

Coronet Pacing Boot



Coronet Pacing Boot. Made of russet leather; calfskin lined, single strap. Close-fitting and neat. Shpg. wt., pair 12 ounces.

31 K 650 Price, per pair. **$3.30**

Pony or Colt Halter

Ends of the straps have long laps; riveted. Throat piece fitted with snap. Chin piece double and adjustable to different sizes. Width, 1 inch throughout. Shpg. wt., 1½ pounds.

31 K 726 Price, each..... **92c**

Sewed Halter

Five-ring; full size; solid leather. Extra long laps. Adjustable. Black. Weight, 2 lbs.

31 K 720 Width, 1-inch strap. Price, each.. **$1.28**

31 K 721 Width, 1¼ ins. Each.. **$1.45**

Cow Halter

Good solid harness leather, 1¼-inch strap. Sides or checks riveted; ring for tie strap. Shpg. wt., 1¾ lbs.

31 K 727 Price, each..... **95c**

31 K 728 Web Cow Halter. 12-cord, fawn-colored webbing. Rope tie with snap. Shpg. wt., 1 lb. Each.. **40c**

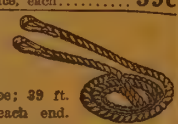
Riveted Halter

Five-ring; cut from harness leather and riveted with tubular rivets. Snaps on throat piece. Shipping weight, 1½ pounds.

31 K 723 1-in. strap. Each..... **$1.10**

31 K 724 Width, 1¼ ins. Shpg. wt., 2 lbs. Each.... **$1.30**

Plow Line

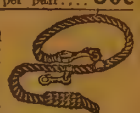


Used in South for single horse work; made of ⅝-in. cotton rope; 39 ft. long, snap on each end.

A real bargain at our price. Shipping weight, about 2¼ pounds.

31 K 1130 Price, per pair.... **80c**

Rope Tie



One-half inch sisal rope, 2 coverts, thimbles and snaps. Extra snap. Strong. Shpg. wt., 15 ozs.

31 K 575 Price, each..... **34c**

Full size Halter made of sisal rope but without snaps and thimbles; equipped with wire clips, as above. Shpg. wt., 12 ozs.

31 K 574 Price, each..... **45c**

Halter Tie

Buckle and Billet. Extra heavy strap 1⅛ ins. wide, 7 feet long, with Japan buckle and leather billet. Good solid stock. Listed at a low price. Shpg. wt., about 11 ozs.

31 K 569 Price, each..... **95c**

Web Halter

Thirteen cord web, 1¾ inches wide. Adjustable 1-in. front, 1-in. double chin piece; ⅝-in. throat latch. Jute tie. Used as a bridle with bit and snaps. Wt., 12 ozs.

31 K 725 Price, each..... **55c**

Hitch Strap

Extra heavy, 7 ft. long and ⅞ in. wide, with snap riveted on. Shipping weight, 7 ounces.

31 K 570 Price, each..... **58c**

Web, 1 in. wide, 7 ft. long, riveted spring snap. Twice the breaking strength of leather. Shpg. wt., 12 ozs.

31 K 586 Price, each..... **27c**

Harness Soap

A highly recommended preparation for keeping harness and carriage tops in first class condition. 12-oz. cakes only.

31 K 716 Per cake..... **23c**

Frank Miller's **Hoof Dressing**.. For cracked or split hoofs.

31 K 711 1 Pint. Wt., 1½ lbs. **35c**

31 K 712 1 Quart. Wt., 2½ lbs. **60c**

Harness Oil

Adds life and good looks to your harness. Gives the harness a rich black color.

31 K 702 1 Pt. Wt., 1½ lbs.... **33c**

31 K 703 1 Qt. Wt., 2½ lbs... **55c**

31 K 704A 1 Gal. Wt., 11 lbs.. **$1.40**

J-I-C Bit

Very effective with vicious horses. 5-in. double mouth bars with closing cheeks. XC finish. Wt., 14 ozs.

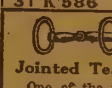
31 K 239 Each ...**39c**

Pelham Bit

Forged steel mouth bit. Loose cheeks; malleable iron 5½-in. smooth mouth bar. Nickel-plated finish. Wt., 1 pound.

31 K 250 Each **$1.10**

Jointed Team



One of the most popular bits for all around farm use. XC finish. 3-in. rings, 5½-in. mouth bar. Wt., 15 ounces.

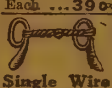
31 K 243 Each..... **35c**

Wilson Nickel

Half Cheek Bit. Cast steel. ⅞-in. mouth bar, 5½-in. long, 1⅞-in. outside rings, 1⅜-in. inside rings. Nickel-plated. Wt., 2 ozs.

31 K 238 Each..... **63c**

Single Wire

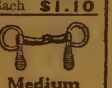


Twisted Wire cheeks, 2-in. rings. XC finish. For horses with hard mouths. Weight, 8 ozs.

31 K 247 Each ...**22c**

31 K 248 Double wire. Each ...**26c**

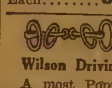
Medium



Jointed Bit, 5½-in. mouth bar, half snaffle cheeks with 2¼-in. rings. XC finish. Weight, 12 ozs.

31 K 252 Each **28c**

Wilson Driving

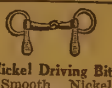


A most Popular Driving Bit. 2½-in. outside rings, 1¼-in. center rings. 6-in. mouth, XC finish. Shpg. wt., 12 ozs.

31 K 245 Each **24c**

31 K 246 Nickel-plated. Each **45c**

Nickel Driving Bit



Smooth Nickel-plated finish. 5½ in. mouth bar. solid half-snaffle cheeks, 2-in. rings. Wt., 7 ozs.

31 K 241 Each **33c**

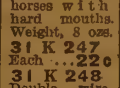
31 K 242 Stiff mouth. Each. **35c**

Liverpool Bit

Malleable iron, with 5½-inch mouth bar, smooth, nickel-plated finish. Wt., 15 ozs.

31 K 255 Price, each..... **68c**

Kentucky Racking Bit



Kentucky Racking Bit; long curved ports; low curved mouth bar. Nickel-plated. Wt., 1 pound.

31 K 249 Each **$1.00**

Leather Mouth

Charter Oak Snaffle Bit. Tempered coil spring center, medicated russet leather. Nickel-plated cheeks with 2-in. rings, 5¼-in. bar. Shpg. wt., 1 pound.

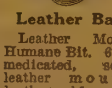
31 K 235 Price, each..... **95c**

Leather Mouth

Leather Mouth Humane Bit. 6-in. medicated, solid leather mouth, leather chin pad. 2¼ - in. nickel-plated rings. Shpg. wt., 14 ozs.

31 K 236 Each **$1.08**

Leather Bar



Solid Leather Mouth Bit. Medicated leather 5¼-in. mouth bar, solid half snaffle cheeks with 2-in. nickel-plated rings. Shpg. wt., 12 ozs.

31 K 237 Each **68c**

Neatsfoot Oil

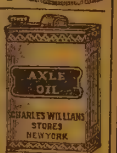
Pure Neatsfoot Oil, with other ingredients, softens and preserves the leather in harness and saddlery.

31 K 696 Pt. Shpg. wt., 1½ lbs.. **34c**

31 K 697 Qt. Shpg. wt., 2½ lbs. Price.. **52c**

31 K 698A Gal. Shpg weight, 11 pounds. Price **$1.45**

Axle Oil



This axle oil is adapted for any climate; will not gum or become rancid.

31 K 699 1 Pt. Shpg. wt., 2 lbs. Price..... **35c**

31 K 700 1 Qt. Shpg. wt., 3 lbs. Price.. **57c**

31 K 701A 1 Gal. Shpg. wt., 11 lbs. Price. **$1.75**

Harness Dressing

For blackening the harness and producing a handsome, durable finish. It will blacken the worn spots on your harness, keep mud from penetrating.

31 K 713 Pt. Wt., 1¼ lbs. **46c**

31 K 714 Quart Wt., 2½ lbs.... **72c**

Parcel Post Rates on Page 1

Gray Fiber

Gray Fiber Brush, hardwood, polished oval back; 4x8½-inch leather strap. Shpg. wt., 12 ozs.

31 K 554 Price, each....35c

Brown Palmetto

Brown Palmetto Fiber Horse Brush, dandy style. Size, 10x2¾ ins. Shpg. wt., 1 lb.

31 K 555 Price, each.....33c

Hoof Brush

Hoof brush, of palmetto fiber with strap. Size of back, 2¾x7 ins., with rounded ends. Shpg. wt., 8 ozs.

31 K 556 Price, each....18c

Horse Brush

"Dandy" style Horse Brush, made of gray tampico fiber. Leathered sides. Size of back, 2¾x9½ ins. Shpg. wt., 24 ozs.

31 K 557 Price, each....48c

Stiff Back

Stiff-back Brush, 4½x9 ins. Oval-shaped back, 11 rows of fine black fiber. Wire drawn. Flat face, 1¾-inch leather strap. Shpg. wt., 12 ozs.

31 K 558 Price, each.....46c

Leather Back

Fine quality leather-back Brush, 4½x8¾ ins. 15 rows black bristle. Brass wire drawn. Shpg. wt., about 14 ozs.

31 K 559 Price, each....85c

Flexible Back Brush

Flexible back style, 4¼x8½ ins., with fine quality bristle. Brass wire drawn. 2-in. strap. Not an army brush. Shpg. wt., 12 ounces.

31 K 560 $1.20 Price, each.

Adjustable

High-grade Brush, 4¼x9-inch leather back. Adjustable with buckle. 18 rows fine bristle. Wire drawn. Shpg. wt., 12 ounces.

31 K 561 $3.20 Price, each.

Reversible Spring Curry Comb

Body of Comb spring steel. A self cleaner. Shpg. wt., about 12 ozs.

31 K 547 Price, each.....25c

Reform Curry Comb

Reform Curry Comb. 1½-inch leather strap. Size, 4¼x6½ inches. Shpg. wt., 8 ounces.

31 K 546 Price, each....17c

Eight-Bar Steel Curry Comb

Trade No. 1400. Closed back, solid steel shank through handle. Width, 5 ins. Shpg. wt., 14 ozs.

31 K 544 Price, each....24c

Stable Broom

Length, 14 inches, with four rows of Bass fiber. Do not furnish handle. Can be made from old broomstick. Shpg. wt., 2¼ lbs.

31 K 565 Price, each.....68c

Combination Curry Comb

Six-Bar Open Back Curry Comb with mane comb on back; 5 inches wide. Shpg. wt., 10 ozs.

31 K 549 Price, each....19c

Solid Back

Eight-Bar Curry Comb. Pressed steel shank through handle. Steel side knockers. Width, 4¾ ins. Shpg. wt., 12 ozs.

31 K 545 Price, each....18c

Favorite Curry Comb

Favorite Curry Comb, 3½x4¾ inches. Shipping weight, 6 ounces.

31 K 548 Price, each.....9c

Mane and Tail Comb

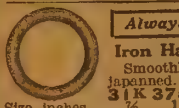
Hard Rubber Mane and Tail Comb. Shipping weight, 2 ounces.

31 K 550 Price, each....22c

Repair Links 31 K 305

Size.. ¼-in. 5/16-in. 3/8-in.
Shpg. wt., dozen. ..20 oz. 28 oz. 36 oz.
Price, per dozen....14c 23c 32c

Always State Size

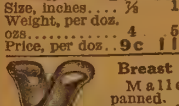


Iron Harness Rings

Smoothly finished and japanned.

31 K 375

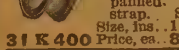
Size, inches	⅞	1	1¼	1¼
Weight, per doz. ozs.	4	5	6	7
Price, per doz.	9c	11c	12c	15c



Breast Strap Slides

Malleable iron, japanned. Will not cut strap. Shpg. wt., 8 ozs.

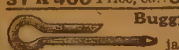
Size, ins.	1½	1¾	2
31 K 400 Price, ea.	8c	8c	8c



Buggy Hame Clips

Wrought iron, japanned. Rivets not furnished. For rivets see 31 K 380. Shipping weight, 8 ozs.

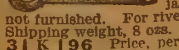
31 K 196 Price, per pair.....19c



Team Hame Clips

Wrought iron. To be used with staples. Furnished with two holes. Wt., per doz., 2½ lbs.

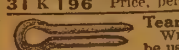
31 K 195 Price, per dozen....51c



Team Hame Staples

Malleable iron. With burrs. Shpg. wt., 1⅞ lbs.

31 K 185 Price, per dozen....38c

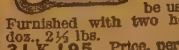


Conway Harness Loop

Used on any strap in place of buckle. No sewing. Japanned.

31 K 216

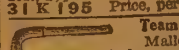
Size, inches..	¾	1	1¼
Wt., oz., doz..	8	10	12	14
Per doz.....	13c	15c	18c	24c



Hame Rivets

Soft iron, can be easily riveted; 1 inch long. The correct size for our Hame Clips. In pound packages only. Shpg. wt., 1¼ lbs.

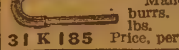
31 K 380 Price, package 18c



Thong Awl

For sewing collars or any heavy material, with thong strap. Length, 9½ ins. Wooden handle. Weight, 6 ozs.

31 K 441 Price, each.....65c



Edging Tool

With claw-shaped point, for finishing the edge of straps. 5 ins. long. Wt., about 2 ozs.

31 K 475 Price, each.....27c

Harness Wax

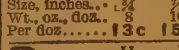
Black Harness Wax same as used by harness makers. Makes the thread strong and waterproof. Shpg. wt., per doz., 1 lb.

31 K 490 Price, 12 balls.....17c

Shoe Thread

American Brand, half bleached, No. 10, Irish Flax Thread. Shpg. wt., 3 oz.

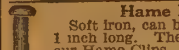
31 K 487 Price, ea.37c



Harness Makers' Needles

Put up in packages of assorted sizes, from No. 0 to No. 4; 12 needles in a package. Shpg. wt., about 1 oz.

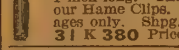
31 K 496 Price package of 12 needles....8c



Patent Awl Haft

Furnished with screw chuck for holding awl blades. Wood handle and steel wrench. Length, 4 ins. Shpg. wt., 2 ozs.

31 K 442 Price, each.....28c



Shoe Awl Blade

Assorted Awl Blades. Put up in packages of 12. Shpg. wt., about 4 ozs.

31 K 443 Price, package.....51c

Cleveland Snap

Bristol Snap

Furnished with round tongue, smooth imitation rubber finish or XC. State which.

	Size, in.	Wt., per ozs. doz.	Price,
31 K 265	⅞	14	45c
31 K 266	1	16	47c
31 K 267	1¼	20	72c
31 K 268	1½	26	80c
31 K 269	1¾	30	90c

With flat steel spring. Finished, imitation rubber.

	Size, in.	Wt., per ozs. doz.	Price,
31 K 270	⅝	15	38c
31 K 271	1	20	40c
31 K 272	1¼	20	48c
31 K 273	1¼	26	66c
31 K 274	1½	32	72c
31 K 275	1¾	40	80c
31 K 276	2	48	88c

Favorite Snap

Has wide tongue with lugs which extend outside of the snap shank, is very strong. Imitation rubber only.

	Size, in.	Wt., ea., ozs.	Price, doz.
31 K 277	1	3	$0.78
31 K 278	1¼	4	.88
31 K 279	1½	5	1.18

Swivel Snap

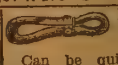
Trace swivel snap. Heavy, with strong screw dee Japanned.

	Size, in.	Wt., ea., ozs.	Price, each
31 K 280	1½	11	24c
31 K 281	1¾	12	26c
31 K 282	2	12	27c

Open Eye Snap

May be permanently attached to ring or chain by pounding down the open end. Full length, 4 ins. Shpg. wt., per set, about 12 ozs.

31 K 294 Price per set of four.....32c



Patent Chain Snap

Can be quickly attached or detached from chain. Press down the tongue and the eye opens. Locks automatically. For heel, pole or breast chain. 1-inch. XC finish. Shpg. wt., 12 ozs.

31 K 293 Price, per pair.....32c

Round Eye Bolt Snap

31 K 290 Two sizes with XC finish. Weight, per dozen, about 1 pound. State SIZE.

Size, inches.	⅝	¾
Price, dozen.	47c	49c

Swivel Snap

31 K 289 Furnished with round eye, strong and durable. Weight, per doz., about 1¾ lbs. State SIZE.

Size, ins.	¾	1
Pr., doz.	$0.98	$1.48

Combination

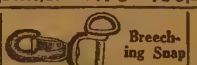
Used on breast straps. Buckle is fitted with roller; imitation rubber finish. 1½ in. wide. Shpg. wt., per pair, 1 lb.

31 K 287 Price, per pair.....31c

Duplex Breast Chain Snap

Malleable iron, imitation rubber finish and gilt tongue. Used for breast chains or connecting two chains. Length, 5¼ ins. Shpg. wt., 8 ozs.

31 K 292 Price, each.....18c



Breeching Snap

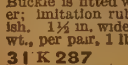
Screw dee loop, swivel trace or breeching snap. Japanned.

Size, in.	Wt., ea., ozs.	Price, each
31 K 283 1½	12	25c
31 K 284 1¾	13	26c
31 K 285 2	14	29c

Heavy Roller Snap

31 K 288 Used on breast strap in place of center slide. Imitation rubber finish. Shpg. wt., 11 ozs. State SIZE.

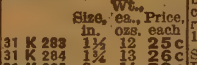
Size, in...	1½	1¾	2
Price, ea..	20c	21c	24c



Triumph Bit Snap

Used in connecting bit to bridle. Furnished with strong flat steel spring. Weight, per dozen, 6 ounces.

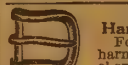
31 K 291 Price, per dozen.....46c



Combination Slide and Snap

31 K 286 Made extra strong with Japan finish. Average weight, about 10 ounces.

Size, inches...	1½	1¾	2
Price, each...	21c	21c	21c



Bent Heel Harness Buckles

For use on driving harness. Either nickel or imitation rubber finish.

	Size	Wt., per doz.	Price, doz., Nkl.	I.R.
31 K 162	½-in.	3 oz.	10c	10c
31 K 163	⅝-in.	8 oz.	13c	13c
31 K 164	¾-in.	8 oz.	14c	14c
31 K 165	⅞-in.	8 oz.	18c	18c
31 K 166	1 -in.	9 oz.	27c	27c

Roller Loop Rein Buckle

Roller prevents injuring strap. Japanned finish. Commonly known as No. 150 buckle.

	Size	Wt., per doz.	Price, doz.
31 K 157	¼-in.	8 oz.	14c
31 K 158	⅜-in.	8 oz.	18c
31 K 159	½-in.	12 oz.	22c
31 K 160	1¼-in.	16 oz.	32c
31 K 161	1½-in.	22 oz.	41c

Heavy Roller Buckle

Japanned finish.

	Size	Wt., doz. ozs.	Price, doz.
31 K 150	¾-in.	5 oz.	10c
31 K 151	⅞-in.	7 oz.	13c
31 K 152	1 -in.	11 oz.	14c
31 K 153	1¼-in.	12 oz.	19c
31 K 154	1½-in.	13 oz.	22c
31 K 155	1¾-in.	17 oz.	28c
31 K 156	2 -in.	18 oz.	34c

Universal Sewing Awl

Make Your Own Harness Repairs with this Handy Tool

This sewing awl is one of the latest inventions and the most effective of anything in the way of automatic sewing awl we have ever seen. Its simplicity makes it a thoroughly practical tool for any and all kinds of repair work, even in the hands of the unskilled. With this tool you can mend harness, shoes, tents, awnings, pulley belts, carpets, saddles, suit cases or any similar heavy material. The reel is filled with six-cord, strong waxed harness thread. Holes are bored in the small end of the handles, where needles can be safely carried when not in use. Shipping weight, complete, 5 ounces.

31 K 440 Universal Sewing Awl with one reel of thread, one straight, and one curved needle. Price, complete.....50c

31 K 495 Extra Needles. Sizes: 4-straight, for sewing shoes; 6-straight, for light harness work; 7-straight, for ordinary harness work; 8-straight, for sewing harness traces and heavy work; 8-curved, for soling shoes.) State SIZE wanted. Price, each.....8c

31 K 485 Extra Reels of Thread. Price, each.....15c

31 K 486 30-yard skein waxed Harness Thread. Price, each.....15c

Little Giant Riveter

An excellent low priced riveter. Can be adjusted to handle rivets of any length up to ¾-inch. Use tubular rivets. Wt., 3½ lbs.

31 K 450 Price.....68c

Solid Copper Rivets with Burrs

A money saver for the farmer. Mend your own harness. These rivets are packed in ½-pound box, assorted sizes, ¾ to ¾. Wt. 10 ozs.

31 K 382 Price, per ½-lb. box.....24c

Japanned Tubular Rivets

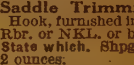
This is the style to be used with riveter 31 K 451. A man can ordinarily use these for any kind of harness work. They are put up in boxes of 100 assorted rivets. Sizes, 3/16 to 8/16. Average weight, per box of 100, 3 ounces.

31 K 381 Price, per box of 100....25c

Leather Gauge Knife

An accurate gauge. Can be set to cut straps from ⅛-inch to 4-inch. Weight, 15 ounces.

31 K 467 $1.78 Price, each.



Saddle Trimmings

Hook, furnished in Im. Rbr. or NKL. or brass. State which. Shpg. wt., 2 ounces.

31 K 367 Ea..10c

Terrets for harness. 1½ in. dia., Im. Rbr. or NKL. or brass. State which. Wt., pair, 8 oz.

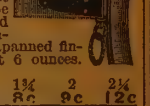
31 K 368 Price, each.....16c

31 K367 31 K368

Cooper's Bolt Trace Clip

31 K 198 For attaching traces to bolt hames. Can also be used on the rear end of traces for attaching heel chains. Japanned finish. Weight, about 6 ounces. State SIZE.

Size, inches...	1½	1¾	2	2¼
Price, each....	7c	8c	9c	12c



Cooper's Jointed Trace Clip

Used by many factories on new harness fitted with bolt hames because it makes the trace flexible. Japanned. Weight, 12 ozs. State SIZE.

31 K 197 Size, inches. 2 2¼
Price, each.....26c 30c

Double Grip Trace Buckle

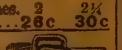
Made extra strong for heavy work. Japanned finish only. Shpg. wt., 8 ozs.

		Each
31 K 167	1½ in.	14c
31 K 168	1¾ in.	16c

Clip and Cockeye

Wrought Clip and Cockeye, made of high grade wrought iron, japanned finish only. Wth. 1½ in. Wt. per set, 1lb.

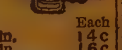
31 K 210 Price, per set (4)...34c



Bottom Hame Loops and Clip

Length about 3 inches. Riveted through hame; loop is large enough for 1-inch strap. Japanned finish. Wt., per doz., about 2 lbs.

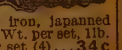
31 K 224 Price per dozen.....42c



Bottom Hame Loops

Malleable Iron furnished with screw. Replaces worn out loops. Takes 1¼-inch strap. Weight, per doz., 12 ozs.

31 K 215 Price, per dozen....43c



Rex Riveter

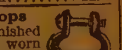
Has case hardened steel plunger, with automatic adjustment for rivets of different lengths. Handles tubular or split rivets. Height, 6½ ins. Shpg. wt., 3 lbs.

31 K 451 Price, each.....95c

Round Trimmers' Knife

For cutting and trimming leather. Blade tool steel, 5 inches in width. Wt., 3 ozs.

31 K 465 Price, each..... $1.24



Square Point Blade Harness Trimming Knife

Made of steel, wood handle; blade, 3½ inches long. Shpg. wt., about 3 ounces.

31 K 466 Price, each.....23c

Tube Punches

31 K 455 Tube Punches (6) made of fine steel. Tubes replaced if broken for small cost. Length, 8½ ins. Weight, 1½ lb. Price, each.....98c

31 K 456 Tubes (4). Same punch as above, but with only four tubes. Shpg. wt. 1 lb. Price, each.....89c

Extra Tubes for 31 K 455. Shpg. wt., 2 ozs.

31 K 457 Price, each.....9c

31 K 10..Rosette Plumes. Red only. Three lengths. Shipping wt., per pair, 8 ounces.

Length	12 in.	14 in.	16 in.
Price, per pair	63c	67c	75c

31 K 12 Uhlan Tassels. Red, white and blue yarn. Length, 5¾ inches, 1¼-inch ring. Shipping weight, 4 ounces. **16c**
Price, per pair.....

31 K 11 Hair Plumes. Made of bright red hair. Fitted with spring wire clasp. Shpg. wt., per pair, 6 ozs. **State LENGTH.**

Length	10 in.	12 in.	14 in.
Price, per pair	37c	48c	52c

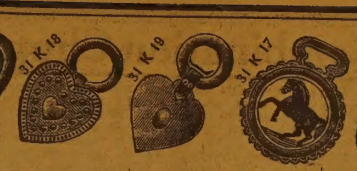
31 K 30 Brass Star Rosettes, 2¼-in. brass ring, with star on red metal background. Loop, 1¼-in. Shpg. wt., 4 ounces. Price, per pair..... **23c**

31 K 35 Brass star and ring ornament with raised rim. Brass wire fastener. Shipping weight, 3 ounces each.

Size	2 in.	2½ in.
Price, each	12c	18c

31 K 36 Heart Ornament. Heavy brass plate, with lead filling in back; 4 wire fasteners. Shipping wt., 6 ozs. each.

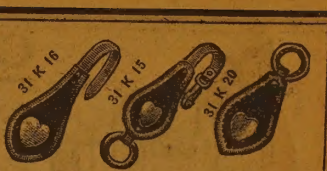
Size	1¾ in.	2 in.
Price, each	10c	12c



31 K 18 Heart pattern line drop. 4½ in. by 5 in. 1¾-in. red binding on patent leather body. 2-in. ring. Shpg. wt., 6 ozs. Price, each..... **98c**

31 K 19 Solid brass drop polished, 4½ in. by 4 in. 2-in. Pyralin ring. Shpg. wt., 6 ozs. Price each..... **60c**

31 K 17 Brass drop, 3⅝ ins. diameter; 1¼ in. loop. Made of solid brass. Shpg. wt., 5 ozs. Price, each..... **45c**



31 K 16 Patent leather face drop with brass heart, red scalloped binding. 3¾ in. wide; 8½ in. long without billet. Billet, ¾ in. wide. Shipping weight, 5 ozs. **69c**
Price, each.....

31 K 15 Patent leather hip drop body, 7½ in. by 4¼ in. Brass heart, red binding; 2¼-in. ring; ¾-in. strap fitted with snap. Shipping wt., 8 ounces. Price, each..**82c**

31 K 20 Patent leather Line or Hip Drop. 7½ in. by 4½ in. Red leather binding. Brass heart center. 2-in Duranoid ring. Shpg. wt., 7 ozs. Price, each..**63c**

31 K 61 Brass Buckle Shield. Smooth edges, highly polished; stamped from solid brass. **State SIZE wanted.**

Size, inch	¾	⅞	1	1⅛	1¼
Weight, dozen	5 ozs.	6 ozs.	7 ozs.	8 ozs.	9 ozs
Price, dozen	37c	44c	54c	63c	74c

31 K 60 Flexible Buckle Shield. Made of solid brass with flexible loop and heart design. Smooth edges. Will not cut the strap.

Size, inch	¾	⅞	1	1⅛	1¼
Weight, dozen	5 ozs.	6 ozs.	7 ozs.	8 ozs.	9 ozs.
Price, dozen	42c	51c	60c	69c	72c

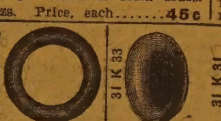
National Martingale Rings. Enameled, furnished in red, blue or white. Size, 1½ inches. Shpg. wt., per pair, 5 ozs. **State COLOR.**
31 K 103 Price, per pair..... **8c**

Alberite Rings, Red, White or Blue

These high-grade Alberite Rings will not become discolored. If colored rings are desired, the Alberite rings are furnished in Red, White or Blue. With an assortment of these rings you can decorate your harness to suit yourself. Shipping weight, 2 ounces each. State what **COLOR** is desired. Be sure to give **CATALOG NUMBER.**

Red Alberite	Size	Price, each	White Alberite	Size	Price, each
31 K 65	1⅛ inches	8c	31 K 80	1⅛ inches	7c
31 K 66	1¼ inches	10c	31 K 81	1¼ inches	8c
31 K 67	1⅜ inches	11c	31 K 82	1⅜ inches	10c
31 K 68	1½ inches	14c	31 K 83	1½ inches	12c
31 K 69	1⅝ inches	15c	31 K 84	1⅝ inches	14c
31 K 70	1¾ inches	17c	31 K 85	1¾ inches	15c
31 K 71	1⅞ inches	18c	31 K 86	1⅞ inches	16c
31 K 72	2⅛ inches	21c	31 K 87	2⅛ inches	19c

Blue Alberite	Size	Price, each		Size	Price, each
31 K 95	1⅛ inches	9c	31 K 99	1⅝ inches	15c
31 K 96	1¼ inches	10c	31 K 100	1¾ inches	17c
31 K 97	1⅜ inches	11c	31 K 101	1⅞ inches	18c
31 K 98	1½ inches	12c	31 K 102	2⅛ inches	22c



31 K 33 Oval Team and Buggy Rosettes. Oval front, beveled back, strong wire loop. Shpg. wt., per pair, 4 ozs.

Sizes	1⅜ in.	2 in.	2½ in.
Price, per pair, Brass	11c	12c	15c
Price, per pair, Nickel	10c	14c	15c

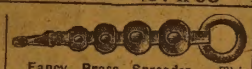
Brass Team Rosettes. Strong brass front, malleable back, solid loop, 2¼ in. diameter only. Shpg. wt., 4 ozs.
31 K 31 Price, per pair..... **16c**

Crystal Rosettes. A very popular rosette with beveled glass front. Fancy assorted ornaments; 1¾ in. diameter; gilt reflector, strong wire loop, ¾ in. wide. Shpg. wt., 3 ounces.
31 K 32 Price, per pair..... **35c**

Star and shield Ornament. Brass with oval front. Brass wire prong. Size, 2 in. Shipping weight, 3 ounces.
31 K 37 Price, each..... **12c**

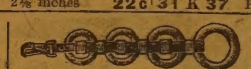
Harness Letters

Brass Letters and Figures, backs smooth, easily attached by prongs. ¾-in. size only. Shipping weight, ¼ ounce each. **State Letters Desired.**
31 K 65 Each..... **8c**

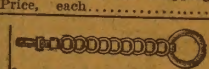


Fancy Brass Spreader. This spreader is made up of a 2-inch brass ring and four solid brass discs. Discs graded in size from 1¼ to 2 inches in diameter, ⅝-in. solid brass loops. 14 in. long. Shipping weight, 6 ozs.
31 K 135 Price, each..... **74c**

Tip Top Spreader. A high-grade spreader, 12 inches long; ⅝-inch black strap, six ⅝-inch celluloid loops and four white Pyralin rings graded in size from 1½ to 1¾ inches inside diameter. Shipping weight, 5 ozs.
31 K 137 Price, each..... **89c**



R. W. B. Spreader. Length, 13 inches; ⅝-inch black strap; four rings, red, white and blue. Rings range in size from 1¼ to 1¾ inches inside diameter. Six solid brass loops and snap. Shpg. wt., 6 ozs.
31 K 136 Price, each..... **62c**



Non-Turn Pyralin Shell Ring Spreader

Made of Celluloid. Made up of ⅞ and 1 in. shell rings, red, white and blue with 2 in. solid ring at end. Very attractive on harness. Shpg. wt., 6 ozs.

31 K 138	5 rings and Solid Ring.	68c
Price, each		
31 K 139	7 rings and Solid Ring.	
Price, each		90c
31 K 140	9 rings and Solid Ring.	
Price, each		98c

Harness Spots

Shipping weight, 3 ounces per dozen.

31 K 45 Brass						
Size, inches	⅜	½	⅝	¾	⅞	1
Price, per dozen	8c	8c	9c	12c	15c	17c
31 K 46 Nickel						
Size, inches	⅜	½	⅝	¾	⅞	1
Price, per dozen	8c	9c	11c	12c	15c	16c

Team Bell

This team bell is made from pressed steel, copper plated and has a malleable iron loop. The tone is pleasant and clear. This bell is furnished in one size only. Shpg. wt., about 8 ozs. Diameter of bell, 3⅜ ins.
31 K 434 Price, each. **19c**

Red, White and Blue Celluloid Slide Loops

Made of high quality celluloid, used with rings on this page to make up fancy spreaders. Very neat and attractive. Furnished in 3 colors and 3 sizes. Shipping weight, about 2 ounces per dozen.

Article No.	Size, In.	Color	Per Doz.
31 K 110	½	Red	21c
31 K 111	½	White	21c
31 K 112	½	Blue	21c
31 K 113	⅝	Red	22c
31 K 114	⅝	White	22c
31 K 115	⅝	Blue	22c
31 K 116	¾	Red	28c
31 K 117	¾	White	28c
31 K 118	¾	Blue	28c
31 K 119	⅞	Red	33c
31 K 120	⅞	White	33c
31 K 121	⅞	Blue	33c
31 K 122	1	Red	38c
31 K 123	1	White	38c
31 K 124	1	Blue	38c

Team Bell

Team bell fitted with leather strap and buckle for attaching. Made of bell metal with white metal finish. Diameter of mouth of bell, 3 ins. You will find the tone of this bell clear and pleasing. Shpg wt., about 5 ozs.
31 K 435 Price, each.. **37c**

Tail Holders

"Holdfast"

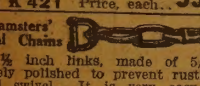
Genuine "Holdfast" Tail Clasp, 1⅜ ins. wide nickel-plated band, lined with corrugated rubber. Fits any size tail. Shipping weight, 3 ounces.
31 K 146 Price, each..... **33c**

Standard

Standard Tail Holder. Leather body, nickel-plated spring, lined with corrugated rubber. Holds tail securely in place. Shipping weight, 3 ounces.
31 K 145 Price, each..... **14c**

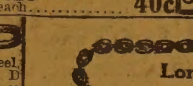
Dodson Hame Fasteners

Will wear longer than a dozen hame straps. Can be fastened in half the time. Three rollers have been substituted for one, making movement of chain much easier. Always reliable; never slip or break. Made entirely of steel. Black, rust-proof finish. Will fit all work hames. Shipping weight, 13 ounces.
31 K 422 Dodson Hame Fastener. Price, each..... **24c**



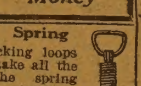
Success Hame Fastener

This Hame Fastener wears as long as the hames. Bronze finished and much quicker and easier adjusted than the ordinary hame strap. Shpg. wt., 13 ounces.
31 K 421 Price, each.. **33c**

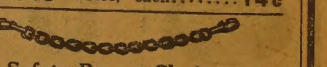


Lever Hame Fastener

Is smoothly finished and plated with white metal. It is considered one of the best hame fasteners made. Will not injure collar. Shpg. wt., 12 ozs.
31 K 420 Price, each..... **40c**



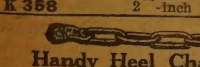
Save This Book! It Saves You Money



Safety Breast Chains

Twisted Links, 9/32-inch iron. Snaps on ends. Polished. Shipping weight, 3½ lbs.

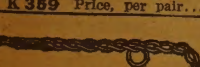
31 K 417	Size, 26 ins.	Size, 28 ins.
Price, per pair	$1.33	$1.37



Teamsters' Heel Chains

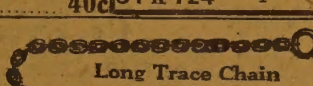
2⅛ inch links, made of 5/16-inch steel; nicely polished to prevent rusting. Screw D and swivel. It is very easy to attach or remove these chains, the only tool necessary is a screw driver. Length, 18 inches. Shipping weight, per pair, 3 pounds.

	Size of Dee	Price, Pair
31 K 356	1½-inch	52c
31 K 357	1¾-inch	54c
31 K 358	2 -inch	56c



Handy Heel Chains

Made up of four 3-inch links and snap, 5/16-inch steel. Length, 15 inches. Shipping weight, per pair, 3 pounds.
31 K 359 Price, per pair..... **45c**



Long Trace Chain

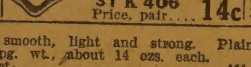
Nine links per foot, 3½ feet 5/16 inch iron chain, made from ¼inch iron. Shipping weight, per pair, 7½ pounds.
31 K 426 Price, per pair..... **$1.05**

Buckeye Stage Chain Traces

Nine links per foot, 3½ feet 5/16 inch iron with swivel sliding ring hook, with clip. Shipping weight, per pair, 7½ pounds.
31 K 425 Price, per pair..... **$1.10**

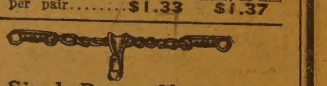
Overcheck Spring

The interlocking loops in the inside take all the strain off the spring when the horse stumbles, preventing broken check reins and hooks. Size, 1 in., finished in Davis rubber. Shpg. wt., 2 ozs.
31 K 405 Price, each..... **23c**



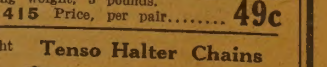
Overcheck Loop

Connects the overcheck with the checkhook. Spring opens when horse stumbles. Made of tempered steel. Shpg. wt., 1½ ounces.
31 K 406 Price, pair.... **14c**



Single Breast Chains

Strong twisted link chain, 28 inches long. 5/16-inch link. Has a lap nose slide snap to prevent side movement of the tongue. Polished. Shipping weight, 5 pounds.
31 K 416 28 inches.
Price, per pair..... **$1.32**



Single Breast Chains

¼-inch twisted from links, toggle ends. Shipping weight, 3 pounds.
31 K 415 Price, per pair..... **49c**

Twist Link Halter Chain

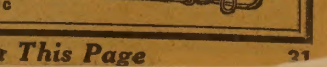
Made of 3/16-inch iron, twisted polished links. Furnished with strong snap, swivel and loose ring. Shpg. wts., 1½ and 2 pounds. Size, 2/0.

State SIZE.	31 K 578	31 K 579
Length, feet	4½	6
Price, each	38c	45c

Welded, smooth, light and strong. Plain bright finish. Shpg. wt., about 14 ozs. each.

Length, feet	4½	6
31 K 580 Size No. 1/0. Price, each	15c	21c
31 K 581 Size No. 2/0. Price, each	18c	23c

Tenso Halter Chains



Combination Clipping and Shearing Machine

Farmers find this combined machine the most economical for clipping or shearing. With it they can clip their horses or cows, and by simply changing one attachment can shear their sheep. Or the outfit may be purchased as a horse clipper only if desired. However, every farmer who raises sheep should have the combined machine, so that he can clip his horses or shear his sheep when he wants to without waiting or paying for someone else to do the work. Any inexperienced person can handle this machine and do much quicker and better work than is possible to do with the old style hand clippers or shears. Also you can do this work for your neighbors and make extra profits for yourself in spare hours. The Richland Clipper is one of the easiest running and fastest clippers produced. The gear case is made absolutely dust and dirt proof. The gears, cut from solid tool steel, run in an oil bath. They are geared high so that a slow motion of the crank works the cutter rapidly.

Ball Bearing—The ball bearings used in this machine are of the very highest quality, and reduce the friction to a minimum. **Flexible Shaft** is six feet long, which is ample to reach all parts of horse without moving the machine. **Clipping Head** used on this machine is the one-nut pressure type and is easily adjusted. The clipping blades are made of tempered steel. The one-nut tension makes it impossible for the knife to get out of adjustment.

Combs and the Cutters are 4-inch, made of steel. With ordinary care, they will give good service for many years. When dull, they can be made to cut as well as new by grinding them on our grinding attachment shown below.

31 K 505B Horse Clipping Machine Without Sheep Shearing Attachment. Shipping weight, 36 pounds. Price.. **$10.95**

31 K 506B Sheep Shearing Machine, Without Horse Clipping Attachment. With 4 combs and cutters. Shipping weight, 40 pounds. Price.....**$14.55**

31 K 530 Sheap Shearing Attachment Only. With 4 combs and cutters. Shipping weight, 9 pounds. Price, each.....**$7.90**

31 K 531A Horse Clipping Attachment Only. Shipping weight, 5 pounds. Price, each.....**$6.90**

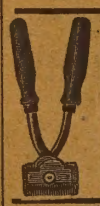
Approximate Shipping Weight for Parts, 1 Pound.

31 K 525 Extra top plate for Horse Clipping Machine. Price, each.....**$0.98**
31 K 526 Extra bottom plate for Horse Clipping Machine. Price, each.. **1.38**
31 K 527 Extra Cutter for Sheep Shearing Machine. Price, each..... **.21**
31 K 528 Extra Comb for Sheep Shearing Machine. Price, each..... **.58**

Clipper and Shear Grinder

This Grinder may be attached to the gear head of our Richland Horse Clipper, and with it you can sharpen your own clipper blades or shearing knives in a few minutes. Shpg. wt., 8 lbs.

31 K 529 Grinder Plate and Parts ready to attach. Complete..... **$4.98**



Ball Bearing Clipper. Plates are of fine grade steel ground true. Tension nut with nickel-plated shanks and ferrules. Single hardwood handles. Length, 11½ ins. Shpg. wt., 1¾ lbs.
31 K 512 Price.... **$3.35**

Lenox Clipper. Plates are 3 ins. wide, made from tool steel. Hardwood handles. Length, 11½ ins. Shpg. wt., 1¾ lbs.
31 K 513 Price, each, **$2.30**

Mule Shears

For clipping around the hoofs. Has a 4-in. blade. Shpg. wt., 10 ounces.
31 K 521 Price, each..... **38c**

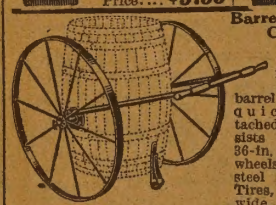
Sheep Shears

Single Bow Sheep Shear. Tempered steel. Shipping weight, 1¼ lbs.
31 K 520 Length, ins.. 6 6½ Price, each... **63c 69c**

Hunter Clipper. Made of high grade tool steel, ground true. Teeth are accurately milled. Tension nut. Lower plate, 1¾ inches wide. Length, 6 inches. Shpg. wt., 8 ozs.
31 K 510 Price, each.... **$1.35**

Priest Clipper

Has high grade tool steel cutting plates, ground true. The teeth are coarse, well milled and intended for cutting heavy hair. Lower plate, 1¾ inches wide, nickel-plated. Tension nut. Wt., 9 ozs.
31 K 511 Price, each... **$1.98**



Barrel Spray Cart

Very desirable for spraying. Any barrel can be quickly attached. Consists of two 36-in. steel wheels and steel frame. Tires, 1¼ ins. wide. Barrel not furnished. Shpg. wt., 50 lbs.
31 K 2571H Price..... **$6.75**

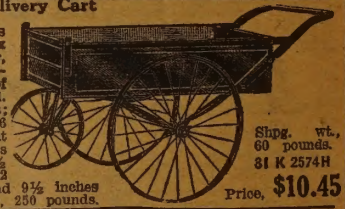
Shoveling Board

Self-dump and will close up to top of 36-in. box. Made of malleable iron, steel, yellow pine boards and oak cleats. Unnecessary to bore holes in wagon box for attaching. Shipping weight, 40 pounds.
31 K 2120H Shoveling Board, 38 inches wide. **$4.75**
Price, each.....
31 K 2121H Shoveling Board, 42 inches wide. Price, each... **$5.13**

Dump End Gate

Furnished with malleable iron fastener and steel hinges. Easily opened from the outside. With this you can unload a wagon of grain much more readily than with an ordinary end gate. Well ironed, painted and striped.
31 K 2115D 14-inch. Shipping weight, 25 pounds. **$2.28**
Price.....
31 K 2116D 16-inch. Shpg. wt., 25 lbs. Price..... **$2.43**

Delivery Cart



Steel spokes and tires. Box of clear lumber, painted and varnished. Top of box iron bound. Steel springs; side wheels, 26 inches high, front wheel, 14 inches high. Box, 41½ inches long, 22 inches wide and 9½ inches deep. Capacity, 250 pounds.
Shpg. wt., 60 pounds.
31 K 2574H Price, **$10.45**

Dashes

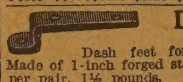
Patent leather, wrought steel frame. Suitable for buggies or wagons.
31 K 2380A Height, 13 inches.

Width, ins..	21	22	23	24	25	26
Shpg.wt., lbs.	6	6	7	7	7	8
Price	$2.95	$3.00	$3.08	$3.22	$3.36	$3.43

31 K 2381A 11 Inches high.

Width, ins..	27	28	30	32	34	36
Shpg.wt., lbs.	8	8	9	10	10	10
Price	$3.18	$3.23	$3.42	$3.73	$3.98	$4.26

Dash Feet

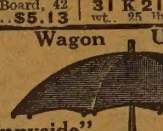


Dash feet for 31 K 2380A Dash. Made of 1-inch forged steel. Shipping weight, per pair, 1½ pounds.
31 K 2385 Price, per pair..... **18c**

Umbrella Holder

A simply made, handy umbrella holder. Can be attached to any farm implement and tilted forward or back. Malleable iron. Shpg. wt., 7 lbs.
31 K 2145 Price ...**$1.23**

Wagon Umbrellas



"Sunnyside"

A large size umbrella with 68-inch spread. Cover of heavy brown duck. 8 steel ribs, 38 inches long. Will stand sun, rain and wind. Shpg. wt., 12 lbs. Furnished with fixture for attaching to seat.
31 K 2142B Price..... **$3.38**

"Harvester"

A strong, serviceable umbrella with 6 steel ribs, 36 ins. long, 64-in. spread. Cover of good quality Union drill. Shpg. wt., 10 lbs.
31 K 2140B Brown. Price, each.... **$1.68**
31 K 2141B Blue. Price, each..... **$2.43**

Storm Front

Gives complete protection from bad weather. Fits any buggy. 20-ounce black drill; 9x20-inch celluloid window. Slot for reins. Can be folded into small package and placed under seat. Shipping weight, 5¼ pounds.
31 K 2352 Price, ea. **$3.64**

Adjustable Storm Apron

Will fit any size dash. Is made of 20-ounce Rubber drill. Can be attached very easily and quickly. Furnished with two steel dash clamps; also with line hole and straps. Shpg. wt., 4¼ lbs.
31 K 2353 Size, 1½ yards. Price, each..... **$1.55**
31 K 2354 Size, 2 yards. Shpg. wt., 5 lbs. Price..... **2.15**

Hitching Weight

Japanned Hitching Iron Weights. Can be used with strap and snap or rope. Shpg. wt., 25 lbs.
31 K 2215A Price, each..... **90c**

Anti-Rattler

Prevents shaft from rattling; does not come off. Japanned. Couplers not included. With ⅝-in. pin. Shpg. wt., 10 ounces.
31 K 2196 Price, per pair.. **33c**

Bow Rest

Prevents breaking bows when top drops. Heavy steel japanned wire spring. Leather-covered sleeve fits over prop. Shpg. wt., 8 ounces.
31 K 2355 Price, pr... **43c**

Whip Socket

Whip Socket with metal barrel and wood top, with fasteners, for leather dash. Enameled in black. Length, 6¾ ins. Shpg. wt., 6 ozs.
31 K 2390 Price, each..... **18c**

Double Shaft Tube Ends

Make Old Shafts as Good as New—An Insurance Against Breakage

For repairing broken shafts or to prevent breaking; wrought steel tubes; hickory filler, nickel-plated tip. Length, 29 inches. Shipped from New York.
31 K 2000 Buggy Size. Shpg. wt., 2 pounds. Price, each..... **41c**
31 K 2001 Surrey or Wagon size. Shpg. wt., 2¼ lbs. Ea. **49c**

Whip Sockets

31 K 2392 For wood dash. Shipping weight, 10 ounces.. **24c**
31 K 2393 For carts. Shpg. wt. 10 ozs..... **16c**

Top Dressing

31 K 2367 Gives waterproof jet black gloss. Preserves top.

Wt., Lbs.	
½ pt. 1	$0.43
1 pt. 1½	.75
1 qt. 2½	1.35

Third Seat Folding

Fits between two on buggy seat, 9½ x8½ ins., 7½ ins. high. Brussels carpet. Shpg. wt., 4 pounds.
31 K 2395 Price, each..... **73c**

Whip Stock

Hand made of hickory with real rawhide loop. Shpg. wt., about 10 ozs. Length, 3½ feet. Very serviceable.
31 K 671 Price, each..... **24c**

Genuine Buckskin Lashes. Six plait. California style, buckskin braided lash. Smooth and evenly tapered. Shpg. wt., about 5 ozs.
31 K 676 Lgth., 5 ft. Price, each.... **16c**
31 K 677 Lgth., 6 ft. Price, each.... **18c**
31 K 678 Lgth., 7 ft. Price, each.... **21c**
31 K 679 Lgth., 10 ft. Price, each.... **37c**

Fine Whips and Lashes

31 K 662A Express Whip. Rawhide center, full stocked with oiled leather covering buckstitched. Two leather buttons. Six plait calfskin point. Length, 7 feet. Shipping weight, 13 ounces. Price, each..... **$1.33**

31 K 663A Team Whip. Dark tan leather cover, buckstitched and hand braided lash. Two buttons, leather loop. Length, 7½ feet. Shipping weight, 1⅛ pounds. Price, each..... **$1.23**

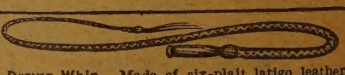
31 K 656A Coach Whip. Length over all, 8 ft. with 3 ft. drop top; 4 ft. wine stock. Smooth waterproof finish; wound keeper; rubber cap; two long buttons. Boston snap. Shipping weight, 2 pounds. Price, each..... **48c**

Buggy Whip

Full Java stock (no wood butt); black waterproof finish; rubber cap. Length, 6 feet. An unusually low price for the quality. Shpg. wt., 4 lbs. **31 K 657A** Price, each..... **38c**

Extra Fine Buggy Whips

7-12 rawhide. Wire woven undercover; rubber cap, loaded. Unbreakable quill loop. Braided silk snap. Black, waterproof. Shpg. wt., 2 lbs.
31 K 660A 6-ft. length. Price, each..... **$1.12**
31 K 661A 6¼-ft. length. Price, each..... **$1.20**



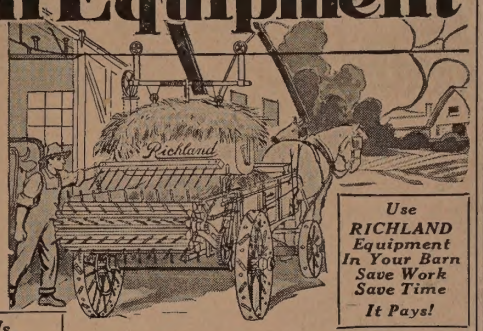
Drover Whip. Made of six-plait latigo leather, hand braided, excellent workmanship, smooth finish, revolving wood handle. Shpg. wt., 1¼ lbs.

Size, 6 ft.	Size, 7 ft.
31 K 664 Price, each.. **48c**	**54c**

Carolina Mule Skinner. Heavy end of latigo double cover, buckstitch sewed and loaded. Tip of six plait, braided buckskin. Braided buttons on butt. Length, 6½ feet. Shipping weight, 2 pounds.
31 K 665 Price, each..... **$1.80**

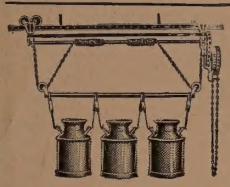
Richland Modern Barn Equipment

Install Your Own Carrier System SAVE MONEY!



Use RICHLAND Equipment In Your Barn Save Work Save Time It Pays!

We Will Help You Plan a Modern Dairy. Write Us.



Chain Hoist Milk Can Carrier

With a Richland Can Carrier, loading full milk cans for the creamery is no longer hard work. And better still, it's a big time saver, as three cans are hoisted at one time and swung on to the truck with almost no effort. Carrier frame, chain hoist and hooks designed and constructed for lifting strength. Of high grade steel and malleable iron. Easy running roller bearing wheels. Shpg. wt., 70 lbs. Shipped from New York City.

19 K 288D Carrier, Without cans..... **$19.35**

Chain Hoist Feed Carrier

This carrier is designed particularly for carrying feed. The carrier tub or box is so shaped that the operator can work from either end when feeding. Box is spacious and well made from selected wood, with steel bottom. Equipped with raise and lower hoist. Easy running roller bearing wheels enable them to be pushed about with the greatest ease. Capacity, 16 bushels. Shpg. wt., 200 lbs. Shipped from New York City.

19 K 285D Feed Carrier complete. Price..... **$37.15**

How to Order Richland Carriers and Parts

Select the carrier and specify catalog number.

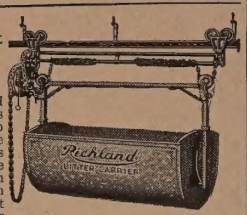
Track—Take the inside measurements first, as if the track were to be installed with square turns. Then deduct 2 feet of track for each curve used, and 18 inches of track for each switch installed.

Curves—It is not necessary to buy machine made curves as the track can be readily bent to the angle or degree required.

Track—Rod or wire track for use outside the barn can be coupled to the rigid track by using our No. 19 K 205B splice, the sheaves on the carrier being grooved deeply enough to compensate the wire track. In using the rod track it is necessary to specify the distance between the end of the rigid track and within 1 foot of your anchor post, allowing this foot for tension bolt. Also allow 10 feet extra of rod for anchorage with turnbuckle.

Write to us for information on your installation problems

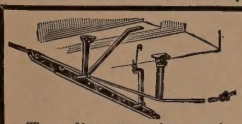
Chain Hoist Litter Carrier



The Richland Litter Carrier is designed to handle the heaviest loads easily. The hoisting chain spirals evenly on the shaft without overlapping. The spiral clutch holds the tub firmly at any height; the brake permits its being lowered at any speed. Tub of galvanized sheet steel, reinforced and riveted. Carrier locks at both ends — a new feature which adds materially to its life. Tandem wheels, 4 wheels each, permit running a curve and switch with minimum effort.

19 K 286D 6-Bushel Capacity for combination solid or wire track, with trip. Shipped from Minnesota. Shipping weight, 135 pounds. Price..... **$30.25**

19 K 287D 9-Bushel Capacity, back geared for solid track. Shipped from factory in Minnesota. Shpg. wt., 155 lbs. Price.... **$32.45**



Wire and Track Splice

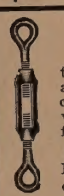
The splice connection, as in the illustration above, is used where the carrier is transferred from rigid track inside to wire track running outdoors. The splice is usually placed at the door. For right or left hand. Shipped from Minnesota.

19 K 205B Shpg. wt., 15 lbs. Price, each..... **$3.75**

Cable Track

Made of 000000 gauge cable wire used as track for our litter carriers. In 100-foot coils. Shpg. wt., 100 lbs.

19 K 198B Price, per coil of 100 ft..... **$6.50**



Turnbuckle

Turnbuckle for taking up slack in anchorage wire on carrier system. Shpg. wt., 4¼ lbs. Shipped from New York City.

19 K 210 Price, each..... **$1.75**

Track Clamp

Clamp by means of which a loop in cable can be formed. One required at each end of rod track. They hook into tension bolt for stretching properly. Shpg. wt., 1 lb.

19 K 199 Price, each. **27c**

Rigid Track

One of the latest patents. Can be bent to run around any structure that may be in the way. Furnished with splice connections. Shpg. wt., 2 lbs. per ft.

19 K 206 Price, per foot.... **17c**

Curve

Curve used where a slight curve is to be made on wire track. Shpg. wt., 3½ lbs.

19 K 213 Price, each... **$1.15**

Track Hangers

Made of malleable iron to be bolted to track. Furnished with nailing plates and adjustable extension bolts. Can be leveled when installed, or later if necessary. Shpg. wt., about 2 pounds.

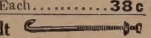
19 K 200 Hanger —clears 2 to 4 ins. Each..... **30c**

19 K 201 Hanger —clears 6 to 8 ins. Each.. **32c**

19 K 215 Hanger—Clears 10 to 12 ins. Each..... **36c**

19 K 216 Hanger—clears 14 to 16 ins. Each..... **38c**

Tension Bolt



Tension Bolt used to draw cable tight. Shpg. wt., 5 lbs.

19 K 203 ⅞x24 ins. Price, each..... **$1.08**

19 K 204 ⅞x30 ins. Shpg. wt., 5¾ lbs. Each..... **$1.17**

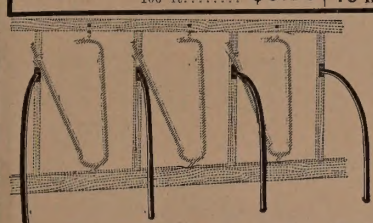
Two and Three-Way Switches

Right or Left Hand

Mounted Two or Three-Way Switches for our Combination and Rigid Track Litter Carriers.

19 K 196H Right or left hand Three-Way Switch. Shpg. wt., 30 lbs. Price..... **$5.95**

19 K 197H Right or left hand Two-Way Switch. Shpg. wt., 35 lbs.... **$5.15**

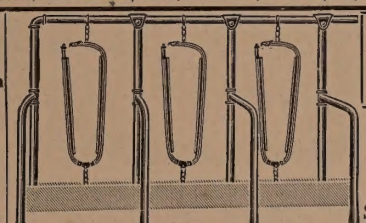


Steel Partition for Wood Frame Stalls

With these partitions and a few 2x6 timbers, you can very economically make your own stalls. Partitions same as those used in our own steel stalls, with flange fitted on upper end to bolt to upright and flange on lower end for wood or cement floor. Either wood or wood-lined steel stanchions can be used. Price does not include stanchion nor woodwork and is for one partition only. Your order, however, must be for two or more partitions. Shpg. wt., 15 lbs. Shipped from factory in Ohio. **$1.80**

19 K 185F Steel Partition for cement floor. Ea.

19 K 186F Steel Partition with flange for wood floor. Price, each..... **$2.00**



Richland Equipment Prices Are Low — But the Quality is High

Steel Stalls and Stanchions

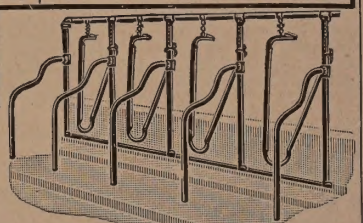
Heavy gauge steel large Radius Bend, measuring 1⅞ inches outside diameter. The partition is 36 inches high, extends back 42 inches and can be set any distance apart. Shipped from factory in Ohio. Shpg. wt., 70 lbs. per stall.

19 K 187F Single Stall, for cement floor with one wood-lined steel stanchion. Price, each..... **$6.55**

19 K 188F Single Steel Stall complete for wood floor. Price, each..... **$7.15**

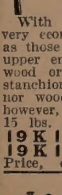
19 K 189F End sections for finishing row (when it does not come against side of barn). Wt., 20 lbs. Each.. **$3.38**

Sanitary Steel Stalls



Single upright and triple bend 1½-inch steel pipe, finished in light gray enamel paint. Manger partitions, listed below, can be arranged five or less on one shaft. When not in use can be easily swung back for cleaning; no springs or other complicated devices. This is one of the most modern and sanitary steel stalls, neat in appearance, simply constructed, and long wearing. Shipped from factory in Ohio. Shipping weight, 76 pounds.

19 K 190F Steel Stall, complete with Stanchion. Price..... **$6.65**



Wood Stanchions

Each Complete

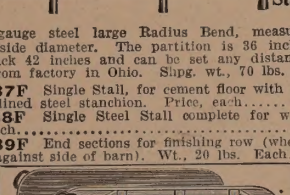
A strong, simple, self-locking chain hanging stanchion at a low price. Made entirely of hardwood, strongly bolted and well finished. It locks itself when bar is closed and cannot become opened accidentally. It requires only a touch of the hand to open the stanchion and it can be done with mittens on. While this stanchion is low in price, it does the work as well as some of the higher priced ones. Shpg. wt., 16 lbs. Shipped from New York City.

19 K 195B Price, each..... **$1.80**

Automatic Water Bowl

The flow of water starts when the animal drinks. Automatically stops when finished. Quickly and easily detached for cleaning. Made of gray iron; plunger and clip of steel. Shipping weight, 12 lbs.

19 K 192B **$2.70** Price, each....



Barn Truck

Truck which should be in every barn or place where live stock is fed. Large wheels make it easy to move. Box is 60 ins. long, 28 ins. wide inside, 22 ins. deep; well painted. Wt., 132 lbs. Shipped from New York City.

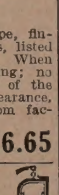
19 K 214D Price... **$29.95**

Stock Waterer

Sanitary, easily installed. Stock Waterer can be used for cattle, hogs and horses. Made of cast iron with japanned finish. Shpg. wt., 12 lbs.

19 K 193B Bowl without cover..... **$2.65**

19 K 194B Bowl with cover..... **$2.87**



Wood Lined Steel Stanchion

Made of high carbon "T" shape steel with hardwood lining. Much more comfortable than unlined steel stanchions. Much stronger and stiffer than stanchions made of channel steel or steel pipe. Simple, positive locking catch. Absolutely unbreakable. Stanchion can be opened or closed with mittens on. Lower part is round. No sharp corners to gouge cow in shoulders. Stanchions are 56 inches high, measuring from ends to chains. Neck space is 6¾ ins. wide. Shpg. wt., 15 lbs. Shipped from New York City.

19 K 191B Price, each..... **$2.60**

Single Tub Cider Press

A very popular and satisfactory style. Medium size—one tub—and at a price that will save you money. The capacity of this mill is from 1 to 2 barrels per day. The frame is made of hardwood. It is securely bolted together. The screw is 1⅛ ins. in diameter, 18 ins. in length. The tub is 12 ins. high and 14 ins. diameter. This mill will grind apples of any size, which may be dropped in whole. The roller may be quickly removed for washing and cleaning, enabling you to keep the mill sweet and clean with very little labor. This is the size of mill to use where you have only a small quantity of apples to grind. Shpg. wt., 140 lbs. Shipped from New York City.

19 K 830H Self-Feed, Single Tub. Price..... **$15.40**

Single Tub Fruit Presses

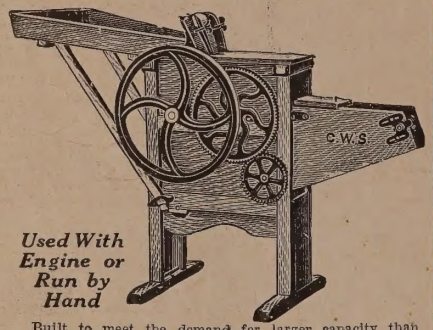
Every grower of fruits and berries should have one of these Richland Fruit Presses to convert a portion or all of his crop into ready cash. These presses all have heavy iron cross heads—not wood. Press screws are of heavy cold rolled steel with accurately cut threads. The follower cap and hand wheel are of best cast iron. Frames are heavy and securely bolted together. Troughs are wide and deep. Tubs are spacious. Because they are capable of withstanding great pressure the user is able to get all of the juice. Shipped from New York City.

19 K 834H Size 1—Legs, 40 ins. high; tub, 10 ins. high, 12 ins. diameter. Press screw, 1⅛x18¾ ins. Shpg. wt., 75 lbs. Price..... **$10.78**

19 K 835H Size 2—Legs, 44 ins. high; tub, 12 ins. high, 14 ins. diameter. Press screw, 1½x20½ ins. Shpg. wt., 120 lbs. Price..... **$13.25**

19 K 836H Size 3—Legs, 51 ins. high; tub, 14 ins. high, 17 ins. diameter. Press screw, 2x23½ ins. Shpg. wt., 175 lbs. Price..... **$18.20**

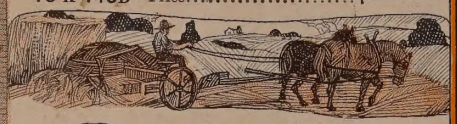
Two-Hole Square Frame Sheller

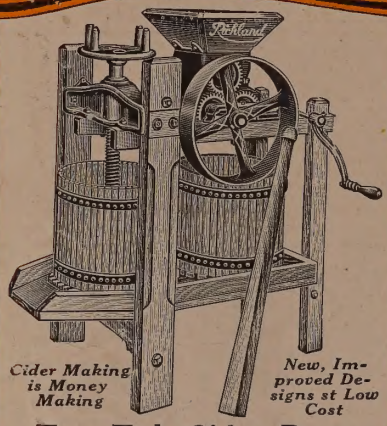


Used With Engine or Run by Hand

Built to meet the demand for larger capacity than the one-hole sheller. Used with small engine or run by hand. Furnished with cob carrier which separates cobs from shelled corn, dropping them from rear of sheller. Shafting is cold rolled steel; runs in babbitted boxes. Heavy balance wheel keeps speed even and regular. The rag irons and springs can be adjusted to thoroughly shell any size ears clean. The feed table is large, firmly attached and strongly braced to the body of the sheller. Feed spout is over the shelling wheels, which grip the ears firmly and makes feeding a very easy task. We furnish this sheller with fan, feed table, cob carrier, crank and pulley 8 inches in diameter with a 4-inch face. Capacity, 20 to 30 bushels per hour, and should be run at a speed of 300 to 400 revolutions per minute. Shipping weight, 220 pounds. Shipped from New York City.

19 K 445D Price..... **$21.00**





Cider Making is Money Making

New, Improved Designs at Low Cost

Two-Tub Cider Press

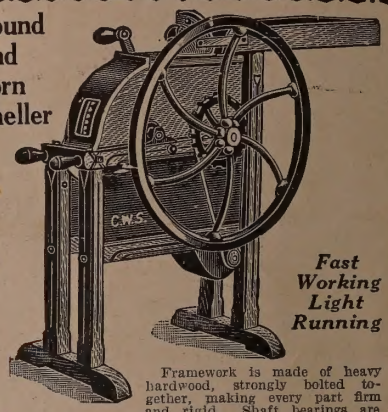
Richland two-tub cider presses are combined hand and power machines fitted with two cranks. Crusher rollers are adjustable and can be set to grind any size apples. All framework is constructed of air-seasoned hardwood securely bolted together to withstand severe strain. Can be operated with Maynard 3-5 H. P. engine. The Richland Senior has a capacity of 6-10 barrels a day. Posts are 2¾x5 inches by 46 inches in height. Two tubs, 14 inches high, 17 inches diameter. Steel press screw 2x23½ inches. Size of hopper, 14x17 inches; floor space, 45x39 inches. Combination balance wheel and pulley, 3½x17½ inches. Shipped from New York City.

19 K 833H Senior Size. 6 to 10 bbls. a day. Shpg. wt., 330 lbs..... **$38.75**

19 K 832H Medium Size. 3-6 bbls. a day. Shipping weight, 215 pounds..... **$25.83**

19 K 831H Junior Size. 2-4 bbls. a day. Shipping weight, 180 pounds..... **$22.40**

Round End Corn Sheller



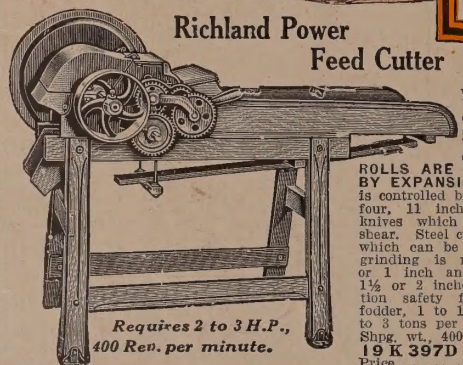
Fast Working Light Running

Framework is made of heavy hardwood, strongly bolted together, making every part firm and rigid. Shaft bearings are all bored true to size and on the crank side of the sheller the three bearings are connected so that they cannot get out of line. Shafting is cold rolled steel; balance wheel is large and heavy, insuring even, light running. The feed spout is placed directly over the shelling wheels which grip the ears as soon as they enter sheller. The spring can be adjusted so as to properly handle ears of any size and do clean work. Shipping weight, 145 lbs. Shipped from New York City.

19 K 442B Sheller, complete with feed table and fan. Price..... **$12.05**

19 K 2650 Extra for 8x12-inch clamp pulley. Shpg. wt., 6 lbs. Price..... **$1.05**

Richland Power Feed Cutter



Requires 2 to 3 H.P., 400 Rev. per minute.

Frame is heavy hardwood, firmly bolted and braced. **Feed table** is of ample size with fixed sides. Large **FEED THROAT** permits fast, easy feeding **FEED ROLLS ARE LARGE AND DRIVEN BY EXPANSION GEARING.** Pressure is controlled by hardwood spring. Has four, 11 inches, tempered tool steel knives which cut with a downward shear. Steel cutting bar has four edges which can be used in turn before regrinding is necessary. Cuts ¼, ⅝ or 1 inch and can be made to cut 1½ or 2 inches. Equipped with friction safety flywheel. Capacity, dry fodder, 1 to 1½ tons; green fodder, 2 to 3 tons per hour. Pulley, 12x4 ins. Shpg. wt., 400 lbs. Shpd. from N. Y.

19 K 397D Richland Feed Cutter. Price..... **$40.85**

19 K 2675 Crank for Hand Use. Shpg. wt., 5 lbs..... **$1.15**

Richland Hand or Power Feed Cutter

Frame is made of hardwood, with mortise and tenon joints. Extra large, broad feed table. It is fitted with adjustable cone feed gearing by which the length of cut can instantly be changed. The knives are made of tempered steel and provided with set screws for adjusting. They have a downward shearing cut against a hardened steel cutting bar. May be used as either hand or power machine. When you wish to run it by power it is necessary to order the extra pulley. Shipped from New York warehouse. Shpg. wt., 245 lbs.

19 K 383D Hand Power Cutter. Knives, two 10½ ins. Price..... **$28.75**

19 K 2682D Iron Pulley, 10x3 inches. Shipping weight, 15 pounds. Price, extra..... **$2.15**

THE CHARLES WILLIAM STORES
NEW YORK CITY INC.